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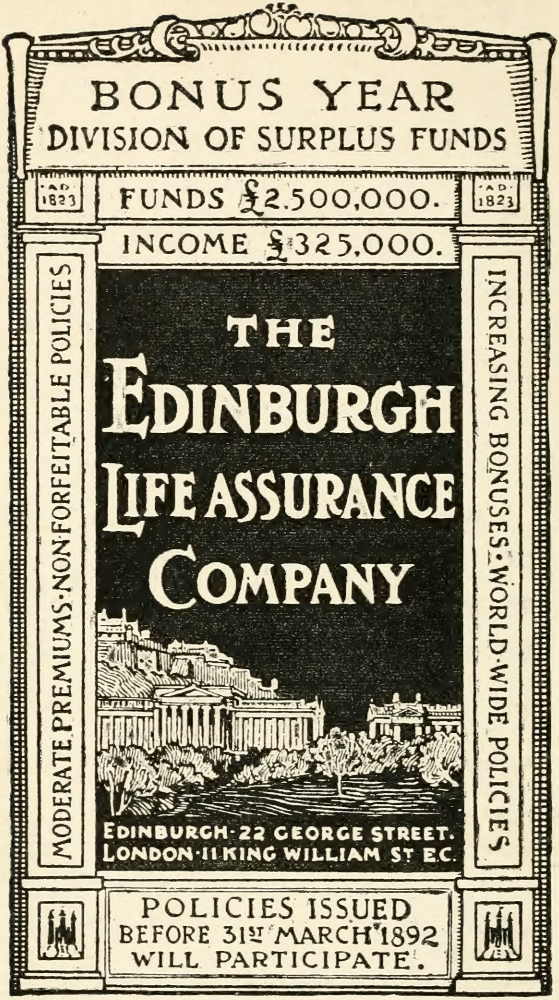

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1	S	
2	𝔖	
3	M	
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	𝔖	
10	M	
11	Tu	
12	W	
13	Th	
14	F	
15	S	
16	𝔖	
17	M	
18	Tu	
19	W	
20	Th	
21	F	
22	S	
23	𝔖	
24	M	
25	Tu	
26	W	
27	Th	
28	F	
29	S	
30	𝔖	
31	M	

SEPTEMBER 1891.

1	Tu	Names of Candidates for Ferguson Scholarships to be given in before this day.
2	W	
3	Th	
4	F	
5	S	
6	𝔖	
7	M	
8	Tu	
9	W	
10	Th	
11	F	
12	S	
13	𝔖	
14	M	Names of Candidates for First, Second, and Third Professional Examinations in Medicine, and for B.Sc. Examinations in Science, given in to Assistant-Clerk (Matriculation Office).
15	Tu	
16	W	
17	Th	Names of Candidates for Examination in General Education (Medical Students), for Preliminary Examination for B.Sc., and for Preliminary Examination in French and German for B.L., given in to Assistant-Clerk (Matriculation Office).
18	F	
19	S	
20	𝔖	
21	M	
22	Tu	
23	W	
24	Th	
25	F	
26	S	
27	𝔖	
28	M	
29	Tu	Examination in General Education for Medical Students and Preliminary Examination for Degrees in Science.—Arith., 9 A.M.; Lat., 12 noon; Eng., 3 P.M.
30	W	

OCTOBER 1891.

1	Th	Names of Candidates for Degrees in Law and Arts, for Certificate in Engineering Science, for Certificate of Literate in Arts, for Diploma for Teachers, and for Scholarships, &c., given in to Assistant-Clerk (Matriculation Office). Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, and for Hannay Bursary to be given in as directed at p. 258. Examinations for Ferguson Scholarships commence. Examination in General Education for Medical Students, Preliminary Examination for Degrees in Science, and Preliminary Examination for Degree of B. L.—Math., 9 A.M.; Mech., 12 noon; French, 3 P.M.	
2	F	Do., do., Greek, 9; Logic, 12; Mor. Phil., 3.	
3	S	Do., do., Higher Math., 9; Nat. Phil., 12; German, 3.	
4	𝔖		
5	M	Examinations for Degrees in Medicine and Science (Zoology, Botany, Geology, Geodesy).	Competition for the Rainy and Lorimer Bursaries.
6	Tu	Do., do., (Chemistry and Practical Chemistry, Physiology, Anatomy, Civil Engineering, Engineering Drawing, Naval Architecture, Ship Design).	
7	W	Do., do. (Regional Anatomy, Materia Medica, Pathology, Civil Engineering).	
8	Th		
9	F		
10	S		
11	𝔖		
12	M	Matriculation for the year begins.	
13	Tu		
14	W		
15	Th		
16	F		

OCTOBER 1891.

17	S	
18	S	
19	M	Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 166.)
20	Tu	Theses for M.D. given in. Names of Competitors for Bursaries and for Preliminary Examinations in Arts given in to Assistant-Clerk (Matriculation Office). Classes in Faculty of Medicine meet. Professor M'Kendrick's address to Medical Students.
21	W	
22	Th	
23	F	
24	S	Names of Candidates for Entrance Examination in Arts given in to Assistant-Clerk (Matriculation Office).
25	S	
26	M	
27	Tu	Classes in Faculty of Law meet. Bursary Competition and Preliminary Examinations in Arts commence. (See p. 257.)
28	W	Meeting of the General Council.
29	Th	Meeting of University Court. Governors at Victoria Infirmary and Managers at Western Infirmary appointed.
30	F	
31	S	Last day for receiving Tradesmen's and other Accounts for preceding half-year. Examinations for Degrees of M.A., B.L. (Arts Subjects), B.Sc. (Arts Subjects), etc., begin. (See pp. 129, 141, 166.)

NOVEMBER 1891.

1	𝔖	
2	M	
3	Tu	Names of Candidates for Degree of B.D. and for Bursaries in Divinity to be given in to Assistant-Clerk (Matriculation Office). Results of Bursary Competition declared. Entrance Examination in Faculty of Arts, 1st day.
4	W	Do., do., 2nd day. Classes in Faculty of Arts meet.
5	Th	Meeting of Senate. Election of Library and other Committees.
6	F	
7	S	Examination for Arnott Prizes at 2 P.M.
8	𝔖	
9	M	Classes in Faculty of Divinity meet. Dr. Robertson's address.
10	Tu	
11	W	
12	Th	Examinations for B.D., and for Bursaries in Divinity, 1st day.
13	F	Do., do., 2nd day.
14	S	Last day for giving in University Prize Essays.
15	𝔖	
16	M	
17	Tu	
18	W	
19	Th	Graduation. Representatives at Charitable and other Boards elected. Professors' Accounts for small Class expenses to be given in.
20	F	
21	S	

NOVEMBER 1891.

22	𝕾	
23	M	
24	Tu	
25	W	
26	Th	Meeting of University Court. Accounts for half-year ending 31st October. Appointment of Assistants to Professors to be intimated.
27	F	
28	S	
29	𝕾	
30	M	Matriculation ends.

DECEMBER 1891.

1	Tu	Class List transmitted by each Professor to Assistant-Clerk (Matriculation Office).
2	W	
3	Th	
4	F	
5	S	
6	𝕾	
7	M	
8	Tu	
9	W	Payment of Tradesmen's Accounts.
10	Th	(Second Thursday.) Meeting of Senate. Class Lists examined. Election of Armagh Bursar. List of Vacant Bursaries published.
11	F	
12	S	
13	𝕾	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	𝕾	
21	M	
22	T	Meeting of the University Court.
23	W	Last day on which the Classes meet before the Christmas Holidays.
24	Th	
25	F	
26	S	
27	𝕾	
28	M	
29	T	
30	W	
31	Th	

JANUARY 1892.

1	F	
2	S	
3	𝔖	
4	M	
5	Tu	First day on which the Classes meet after the Christmas Holidays.
6	W	
7	Th	
8	F	
9	S	
10	𝔖	
11	M	
12	Tu	
13	W	
14	Th	(Second Thursday.) Meeting of Senate. Vacant Bursaries filled up. Appointment of Committees.
15	F	
16	S	
17	𝔖	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	𝔖	
25	M	
26	Tu	
27	W	
28	Th	Meeting of University Court.
29	F	
30	S	
31	𝔖	

FEBRUARY 1892.

1	M	Holiday (Monday after last Friday of January).
2	Tu	*Holiday (Candlemas).
3	W	
4	Th	
5	F	
6	S	
7	𝔖	
8	M	
9	Tu	
10	W	
11	Th	(Second Thursday.) Meeting of Senate.
12	F	
13	S	
14	𝔖	
15	M	
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	𝔖	
22	M	
23	T	
24	W	
25	Th	Meeting of University Court.
26	F	
27	S	
28	𝔖	
29	M	Holiday (Monday after last Friday of February).

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*The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

MARCH 1892.

1	Tu	
2	W	
3	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.
4	F	Meeting of Professors for adjudging University and other Prizes.
5	S	
6	S	
7	M	
8	Tu	
9	W	Names of Candidates for First, Second, and Third Professional Examinations in Medicine, and for B.Sc. Examinations in Science, given in to Assistant-Clerk (Matriculation Office). Names of Candidates for Examination in General Education for Medical Students, for Preliminary Examination for B.Sc., and for French and German for B.L., given in to Assistant-Clerk (Matriculation Office).
10	Th	Last day for lodging applications for Examination for Degrees in Arts and Law, for Certificate in Engineering Science, for Certificate of Literate in Arts, and for Diploma for Teachers.
11	F	
12	S	
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	S	
21	M	Theses for M.D. given in. *Holiday (Monday after Penult Friday).
22	Tu	
23	W	Examinations in General Education for Medical Students, Preliminary Examination for Degrees in Science, and Preliminary Examination for B.L., on this and three following days. (See pp. 141, 156, 166.)
24	Th	(Penult Thursday.) Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed.
25	F	Winter Classes in Faculty of Medicine close.
26	S	
7	S	
28	M	
29	Tu	Examinations for Degrees in Medicine and Science—(Zoology, Botany, Geology, Geodesy).
30	W	Do. do. (Chemistry and Practical Chemistry, Physiology, Anatomy, Civil Engineering, Drawing, Naval Architecture, Ship Design).
31	Th	Do. do. (Regional Anatomy, Materia Medica, Pathology). Meeting of University Court. Last day for receiving Tradesmen's, Forty-five shilling, and other Accounts for preceding half-year. Professors' Accounts of Class Expenses under Ordinance to be given in.

* The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

APRIL 1892.

1	F	Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office).
2	S	
3	**S**	
4	M	
5	Tu	
6	W	Winter Classes in Faculty of Law close. Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 166.)
7	Th	Examinations for Degree of B.D., 1st day.
8	F	Do., do., 2nd day.
9	S	Examinations for Degrees in Arts, Law (Arts Subjects), and Science (Arts Subjects), for Literate in Arts, for Diploma for Teachers, and for Snell Exhibitions begin. (See pp. 129, 141, 166.)
10	**S**	
11	M	Examinations for Degrees in Science—(Civil Engineering).
12	Tu	
13	W	
14	Th	Last day for returning Books to Library. (Second Thursday.) Meeting of Senate.
15	F	
16	S	
17	**S**	
18	M	
19	Tu	
20	W	

APRIL 1892.

21	Th	
22	F	
23	S	Library re-opened.
24	**S**	
25	M	Summer Session begins.
26	Tu	
27	W	(Wednesday before close of Session.) Meeting of General Council.
28	Th	Meeting of University Court. Accounts for half-year ending 31st March.
29	F	Graduation in the Four Faculties. Honorary Graduation. Distribution of University Prizes.
30	S	Meeting of Senate.

MAY 1892.

1	**S**	
2	M	
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	**S**	
9	M	
10	Tu	Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine.
11	W	
12	Th	
13	F	
14	S	
15	**S**	
16	M	
17	Tu	Names of Candidates for Final Professional Examination in Medicine given in to Assistant-Clerk (Matriculation Office).
18	W	
19	Th	
20	F	
21	S	
22	**S**	
23	M	
24	Tu	
25	W	
26	Th	Meeting of University Court.
27	F	
28	S	
29	**S**	
30	M	
31	Tu	

JUNE 1892.

1	W	
2	Th	
3	F	
4	S	
5	𝔖	
6	M	
7	Tu	
8	W	
9	Th	
10	F	
11	S	
12	𝔖	
13	M	Clinical Examinations begin.
14	Tu	
15	W	
16	Th	
17	F	
18	S	
19	𝔖	
20	M	Theses for M.D. given in.
21	Tu	
22	W	
23	Th	
24	F	
25	S	
26	𝔖	
27	M	
28	Tu	
29	W	
30	Th	Meeting of University Court.

JULY 1892.

1	F	
2	S	
3	𝔖	
4	M	
5	Tu	
6	W	
7	Th	
8	F	
9	S	
10	𝔖	
11	M	Final Professional Written Examination for Degrees in Medicine on this and two following days. (See p. 156.)
12	Tu	
13	W	
14	Th	
15	F	
16	S	
17	𝔖	
18	M	
19	Tu	
20	W	
21	Th	
22	F	
23	S	
24	𝔖	
25	M	
26	Tu	
27	W	Meeting of University Court.
28	Th	Meeting of Senate. Graduation in Medicine.
29	F	
30	S	
31	𝔖	

UNIVERSITY OFFICERS.

	Elected.	Electors.
Chancellor—THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D.,	1884	General Council.
Vice-Chancellor—JOHN CAIRD, D.D., LL.D.,	1873	Chancellor.
Rector—THE RIGHT HON. ARTHUR JAMES BALFOUR, M.A., LL.D., M.P.,	1890	Matriculated Students.
Principal—JOHN CAIRD, D.D., LL.D.,	1873	Crown.
Dean of Faculties—SHERIFF BERRY, LL.D.,	1891	Senate.
Parliamentary Representative—JAMES A. CAMPBELL, LL.D.,	1880	General Council.

University Court.

THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

THE LORD PROVOST OF GLASGOW, *ex officio.*

	Elected.	Electors.
SIR JAMES KING, BART., LL.D.,	1887	Chancellor.
SIR ARCHIBALD CAMPBELL, BART, LL.D.,	1891	Rector.
JAMES COLQUHOUN, ESQ.,	1890	Lord Provost, Magistrates, and Town Council of Glasgow.
R. W. COCHRAN PATRICK, LL.D.,	1887	General Council.
HECTOR C. CAMERON, M.D.,	1889	
SIR JOHN N. CUTHBERTSON,	1889	
DAVID HANNAY, ESQ.,	1889	
SHERIFF BERRY, LL.D.,	1889	Senate.
PROFESSOR LEISHMAN, M.D.,	1889	
PROFESSOR STEWART, D.D.,	1889	
PROFESSOR RAMSAY, LL.D.,	1890	

Senatus Academicus.*

PRESIDENT, - - - THE PRINCIPAL, - - - - 1873

PROFESSORS.

	CHAIRS.	Appointed
William Purdie Dickson, D.D., LL.D., -	*Divinity*, - - -	1873
Sir William Thomson, LL.D., D.C.L., F.R.S., - - - - - -	*Natural Philosophy*,	1846
Robert Grant, LL.D., F.R.S., - -	*Practical Astronomy*,	1859
William T. Gairdner, M.D., LL.D., -	*Practice of Medicine*,	1862
George G. Ramsay, LL.D., - - -	*Humanity*, - -	1863
John Veitch, LL.D., - - - -	*Logic and Rhetoric*, -	1864
Edward Caird, LL.D., - - -	*Moral Philosophy*, -	1866
John Young, M.D., - - - -	*Natural History*, -	1866
William Leishman, M.D., - - -	*Midwifery*, - -	1868
Sir George H. B. Macleod, M.D., -	*Surgery*, - - -	1869
Pierce A. Simpson, M.A., M.D., - -	*Forensic Medicine*, -	1872
William Stewart, D.D., - - -	*Biblical Criticism*, -	1873
George Buchanan, M.A., M.D., LL.D.,	*Clinical Surgery*, -	1874
T. M'Call Anderson, M.D., - -	*Clinical Medicine*, -	1874
John Ferguson, M.A., LL.D., F.S.A., -	*Chemistry*, - -	1874
John Gray M'Kendrick, M.D., LL.D., F.R.S., - - - - - -	*Institutes of Medicine*,	1876
James Robertson, D.D., - - -	*Oriental Languages*,	1877
John Cleland, M.D., LL.D., D.Sc., F.R.S., - - - - - -	*Anatomy*, - -	1877
William Jack, LL.D., - - -	*Mathematics*, - -	1879
Matthew Charteris, M.D., - - -	*Materia Medica*, -	1880
Frederick O. Bower, D.Sc., F.R.S., -	*Botany*, - - -	1885

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* "The precedency of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

PROFESSORS—*Continued.*

	CHAIRS.	Appointed
Philip Jenkins,	*Naval Architecture, including Marine Engineering,*	1886
Robert Herbert Story, D.D.,	*Church History,*	1886
Alexander Moody Stuart,	*Law,*	1887
Andrew Cecil Bradley, M.A.,	*English Language and Literature,*	1889
George G. A. Murray, B.A.,	*Greek,*	1889
Archibald Barr, D.Sc.,	*Civil Engineering and Mechanics,*	1889
James Moir,	*Conveyancing,*	1889

Lecturers.

John Young, M.D.,	*Honyman Gillespie Lecturer.*
Thomas Reid, M.D.,	*Waltonian Lecturer.*
Joseph Coats, M.D.,	*Pathology.*
Wm. Galbraith Miller, M.A., LL.B.,	*Public Law.*
Robert T. Younger, M.A., LL.B.,	*Constitutional Law and History.*
David Yellowlees, M.D., LL.D.,	*Insanity.*
F. Max Müller, M.A.,	*Natural Theology* (Gifford Foundation).
Alexander Tille, Ph.D.,	*German Literature.*

DEMONSTRATORS AND ASSISTANTS TO PROFESSORS.

Humanity,	John Brown, M.A. Daniel Rankin, B.A.
Greek,	Alexander Murdoch. Robert Montague Burrows, B.A.
Natural Philosophy,	Magnus Maclean, M.A.
Arnott and Thomson Demonstrator in *Experimental Physics,*	James Thomson Bottomley, M.A., D.Sc., F.R.S.
Mathematics,	George A. Gibson, M.A.
Young Assistant in *Civil Engineering and Mechanics,*	Alexander B. Dobbie, B.Sc.
Naval Architecture,	Archibald S. Younger, B.Sc.

Practice of Medicine,	George S. Middleton, M.A., M.D.
Anatomy,	John Yule MacKay, M.D. Andrew M. Ramsay, M.B., C.M. Robert Gordon Bell, M.B., C.M.
Baxter Demonstrator in *Geology,*	Benjamin G. Cormack, M.A., B.Sc.
Surgery,	George T. Beatson, M.D.
Midwifery,	Murdoch Cameron, M.D.
Chemistry,	Geo. G. Henderson, D.Sc. James Stanley Muir, B.Sc.
Botany,	Benjamin G. Cormack, M.A., B.Sc.
Materia Medica,	William Maclennan, M.B., C.M.
Muirhead Demonstrator of *Physiology,*	William Snodgrass, M.A., M.B., C.M.
Forensic Medicine,	Donald Munro, M.D.
Clinical Surgery,	J. C. Renton, M.D.
Clinical Medicine (Dr. Anderson),	William G. Dun, M.D. John F. Fergus, M.A., M.B., C.M.
Clinical Medicine (Dr. Gairdner),	George S. Middleton, M.A., M.D. Charles O. Hawthorne, M.B., C.M.

EXAMINERS FOR DEGREES.

In Divinity.—The Professors in the Faculty of Divinity.

In Law.—The Professors in the Faculty of Law, assisted by
William Galbraith Miller, LL.B., Advocate.
Robert T. Younger, LL.B., Advocate.
W. Craig Roberton, LL.B.

In Medicine.—The Professors in the Faculty of Medicine, assisted by

Joseph Coats, M.D.
David Newman, M.D.
George Murray.
Samuel Sloan, M.D.
Wm. J. Fleming, M.D.
Wm. D. Halliburton, M.D.
George A. Gibson, M.D.
Alex. M. Buchanan, M.D.
David W. Finlay, M.D.
Ralph Stockman, M.D.
John M. Thomson, F.R.S.E.
D'Arcy W. Thompson, B.A.
Ebenezer Duncan, M.D.
A. E. Maylard, M.B.

In Arts.—The Professors of Humanity, Greek, Logic, Moral Philosophy, Natural Philosophy, Mathematics, and English Literature, assisted by

R. M. Wenley, M.A., D.Sc.,	Examiner in	Mental Philosophy,	1888*
James Buchanan, M.A.,	,,	Mathematics, -	1889
J. W. Marshall, M.A.,	,,	Classics, - -	1890

In Science.—Professor Sir Wm. Thomson, D.C.L., Professor Grant, LL.D., Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, D.Sc., Professor Jenkins, Professor Barr, D.Sc.

Keeper of Hunterian Library and Museum, - - -	Professor Young, M.D.
Under-Keeper, - - -	John Young, F.G.S.
Curator of Library, - -	Professor Dickson, D.D., LL.D.
Librarian, - - - -	James Lymburn.
Sub-Librarian, - - -	James L. Galbraith.
Secretary to the University Court, - - - -	Alan E. Clapperton, B.L., 91 West Regent Street.
Clerk of Senate, - - -	Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
Assistant-Clerks, - - -	W. Innes Addison, Matriculation Office. James Coutts, M.A., Registration Office.
Registrar of the General Council, - - - -	James Coutts, M.A.
Clerk of the General Council, -	Archibald Craig, LL.B., 156 St. Vincent Street.
Factors, - - - -	Hill & Hoggan, 194 Ingram Street.
Law-Agents, - - -	Mitchells, Johnston, & Co., 160 West George Street.
Auditors, - - - -	Brown, Fleming, & Murray, 163 West George Street.
Publishers and Booksellers to the University, - -	James MacLehose & Sons, 61 St. Vincent Street.

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* Dr. Wenley's term of office expires in December.

Printer to the University,	Robert MacLehose, 153 West Nile Street.
Robe Makers to the University,	James Thomson & Son, 84 St. Vincent Street.
Head Servants,	Bedellus and Janitor, - Lauchlan M‘Pherson. Master of Works, - David Stewart.

Students' Representative Council.

President—William Newlands.

Vice-Presidents—J. H. Maclean, M.A.; R. S. Horne.

Secretary—D. J. Allison, U.P. Manse, Alexandria, Dumbartonshire.

Assistant Secretaries—Angus Macdonald, M.A., ; Alex. Knox; D. Fraser Harris, B.Sc.; and John H. Pagan, M.A.

Treasurer—James Aiken, M.A., 1 Glenavon Terrace, Partick.

Executive Committee. Divinity—John Campbell, B.D.; *Law*—T. Holtum Lillie, M.A.; *Medicine*—W. J. M‘Kendrick, B.Sc., James Carslaw, M.A.; *Arts*—Alexander Ralston, Joshua Ferguson, M.A., W. Parker Hanks.

I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V, by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio.*

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.*

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal, a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.* In the first twenty years of last century, six Professorships were either originally founded or revived—viz., those of Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining fifteen Professorships were founded during the present century—viz., Natural History (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883).

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* This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted four hundred years ago, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

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* See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by Her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £256,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunningham, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71.

GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858, the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished ; two new bodies, called the University Court, and University Council, were instituted ; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, in accordance with which the affairs of the University are now administered.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council has been constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission has been created and is now sitting, with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners are empowered to lay down regulations for the constitution of a Students' Representative Council, and to frame regulations under which that Council shall be entitled to make representations to the University Court.

CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

Chancellors from the year 1642.

1642.	James Hamilton, Marquis of Hamilton.
1660.	William Cunningham, Earl of Glencairn.
1661.	Andrew Fairfowl, Archbishop of Glasgow.
1664.	Alexander Burnett, ” ”
1670.	Robert Leighton, ” ”
1674.	Alexander Burnett, ” ”
1679.	Arthur Ross, ” ”
1684.	Alexander Cairncross, ” ”
1687.	John Paterson, ” ”
1692.	John Carmichael, Earl of Hyndford.
1715.	James Graham, Duke of Montrose.
1743.	William Graham, ” ”
1781.	James Graham, ” ”
1837.	James Graham, ” ”
1875.	Sir William Stirling-Maxwell, Bart., M.P.
1878.	Walter Francis, Duke of Buccleuch and Queensberry, K.G.
1884.	John Hamilton Dalrymple, Earl of Stair, K.T.

RECTOR

The Rector is elected by the matriculated students of the University, divided into four nations.* In the case of an equality of nations the Chancellor has, in accordance with the Act of 1858, the casting vote, but the Act of 1889 gives the Commissioners power to ordain that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The election takes place upon the 15th November (the 16th, if the 15th falls on a Sunday); the term of office is three years. The Rector is the official President of the University Court.

Rectors from 1773.

1773. Charles Cathcart, Lord Cathcart.
1775. Lord Chief Baron Montgomerie.
1777. Andrew Stewart, Esq. of Torrance.
1779. James Maitland, seventh Earl of Lauderdale.
1781. Right Hon. Henry Dundas.
1783. Right Hon. Edmund Burke.
1785. Robert Graham, Esq. of Gartmore.
1787. Adam Smith, LL.D.
1789. Walter Campbell, Esq. of Shawfield.
1791. Thomas Kennedy, Esq. of Dunure.
1793. William Mure, Esq. of Caldwell.
1795. William M'Dowall, Esq. of Garthland.
1797. George Oswald, Esq. of Auchincruive.
1799. Right Hon. Sir Ilay Campbell, Lord President.
1801. William Craig, a Lord of Session.
1803. Lord Chief Baron Dundas.
1805. Henry Glassford, Esq. of Dugalston.
1807. Archibald Colquhoun, Esq. of Killermont.
1809. Archibald Campbell, Esq. of Blythswood.
1811. Lord Archibald Hamilton.
1813. Thomas Graham, Lord Lynedoch.
1815. David Boyle, Lord Justice Clerk.
1817. George Boyle, Earl of Glasgow.

The nations are constituted as follows:—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.
2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.
3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.
4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

1819. Kirkman Finlay, Esq., M.P.
1820. Francis Jeffrey, Esq., Advocate.
1822. Sir James Mackintosh, M.P.
1824. Henry Brougham, Esq., M.P.
1826. Thomas Campbell, LL.D.
1829. Henry Petty, Marquis of Lansdowne.
1831. Henry Cockburn, Esq., Solicitor-General.
1834. Lord Stanley, M.P.
1836. Sir Robert Peel, Bart., M.P.
1838. Sir J. G. R. Graham, Bart., M.P.
1840. John Campbell, Marquis of Breadalbane.
1842. Right Hon. Fox Maule, M.P.
1844. Andrew Rutherford, Esq.
1846. Lord John Russell.
1847. Colonel Mure of Caldwell.
1848. Thomas Babington Macaulay, Esq.
1850. Archibald Alison, Esq., Sheriff of Lanarkshire.
1852. Earl of Eglinton.
1854. Duke of Argyle.
1856. Sir Edward Bulwer Lytton.
1859. Earl of Elgin.
1862. Viscount Palmerston.
1865. John Inglis, Lord Justice Clerk.
1868. Lord Stanley (now Earl of Derby).
1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
1877. Right Hon. William Ewart Gladstone, M.P.
1880. Right Hon. John Bright, M.P.
1883. Right Hon. Henry Fawcett, M.P.
1884. Edmund Law Lushington, LL.D., D.C.L.
1887. Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E.
1890. RIGHT HON. ARTHUR JAMES BALFOUR, M.P.

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

Deans from the year 1800.

1800. James Couper, D.D.
1802. Archd. Campbell, Esq., of Succoth.
1804. Gavin Gibb, D.D.
1806. Duncan Macfarlan, D.D.
1808. Gavin Gibb, D.D.
1810. Duncan Macfarlan, D.D.
1812. Gavin Gibb, D.D.
1814. Stevenson Macgill, D.D.
1815. Archibald Campbell, Esq., M.P.
1817. Sir John Connel.
1819. Archibald Campbell, Esq., M.P.
1821. Sir John Connel.
1823. Archibald Campbell, Esq., M.P.
1825. Sir John Connel.
1827. Archibald Campbell, Esq., M.P.
1829. Sir John Connel.
1831. Archibald Campbell, Esq.
1833. Sir A. Campbell, Bart.
1835. Archibald Campbell, Esq.
1837. Sir A. Campbell, Bart.
1839. Kirkman Finlay, Esq.
1841. Lord Dunfermline.
1843. Sir T. Makdougall Brisbane, Bart.
1845. A. Maconochie, Lord Meadowbank.
1847. Earl of Eglinton.
1849. Colonel Mure of Caldwell, M.P.
1851. W. Lockhart, Esq., M.P.
1853. Colonel Mure.
1854. W. Lockhart, Esq.
1857. W. Stirling, Esq., of Keir, M.P.
1860. J. Moncreiff, Lord Advocate.
1863. Sir A. I. Campbell of Succoth.
1865. Henry Glassford Bell, Esq.
1868. Sir James Fergusson, Bart.
1869. Sir Thos. E. Colebrooke, Bart., M.P.
1872. Archd. Orr Ewing, Esq., M.P.
1876. Alexander B. M'Grigor, LL.D.
1879. James King, Esq.
1882. R. W. Cochran-Patrick, LL.D., M.P.
1885. Alexander Crum, Esq., M.P.
1888. ROBERT BERRY, LL.D., Sheriff of Lanarkshire.

PRINCIPAL

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

Principals from the year 1574.

1574. Andrew Melville.
1580. Thomas Smeaton.
1582. Patrick Sharpe.
1615. Robert Boyd.
1622. John Cameron, D.D.
1626. John Strang, D.D.
1650. Robert Ramsay.
1653. Patrick Gillespie.
1661. Robert Baillie, D.D.
1662. Edward Wright.
1684. James Fall.
1690. William Dunlop.
1701. John Stirling.
1728. Neil Campbell.
1761. Wm. Leechman, D.D.
1786. Archd. Davidson, D.D.
1803. William Taylor, D.D.
1823. Duncan M'Farlan, D.D.
1858. Thomas Barclay, D.D.
1873. JOHN CAIRD, D.D.

UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus.* There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

The Rector's Assessor continues in office three years, and the other Assessors four years.

The University Court is a body corporate, in which is vested all the property belonging to the University. By the Act of 1889 it is enacted that the University Court, in addition to the powers conferred upon it by the Act of 1858, shall, subject to any ordinances made by the Commissioners have power—

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested, and to receive representations and reports from the Senate and the General Council.

3. To review, on representation by any member of the

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* *Assessors since the University Court was constituted.*

CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
1865. A. Sym, D.D., New Kilpatrick.
1871. James Pearson, D.D., Strathblane.
1874. Robert Jamieson, D.D., Glasgow.
1878. J. A. Campbell, LL.D., Stracathro.
1887. Sir James King, Bart., LL.D.

RECTOR.

1860. Thomas Buchanan, Esq.
1863 Walter Buchanan, Esq., M.P.
1866. Archibald Orr Ewing, Esq.
1869. James A. Campbell, LL.D.
1878. Alexander Crum, Esq.
1880. Charles Cameron, M.D., LL.D., M.P.
1884. A. B. M'Grigor, LL.D.
1887. James Grahame, Esq.
1890. Sir Archd. Campbell, Bart., LL.D.

LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. James Colquhoun. Esq.

GENERAL COUNCIL.

1859. Andrew Bannatyne, LL.D.
1864. Lord Kinloch.
1867. Anderson Kirkwood, LL.D.
1887. R. W. Cochran-Patrick, LL.D.
1889. Hector C. Cameron, M.D.
1889. Sir John Neilson Cuthbertson.
1889. David Hannay, Esq.

SENATUS ACADEMICUS.

15th Nov., 1859. Prof. W. Ramsay, M.A.
11th Dec., 1863. Prof. R. Buchanan, LL.D.
12th Dec., 1867. Prof. Allen Thomson, M.D.
11th Jan., 1872. Prof. Sir W. Thomson.
13th Jan., 1876. Prof. Cowan, M.D.
29th Jan., 1880. Prof. Berry, M.A., LL.D.
31st Jan., 1884. Prof. Dickson, D.D., LL.D.
28th Nov., 1889. Sheriff Berry, LL.D.
28th Nov., 1889. Prof. Leishman, M.D.
28th Nov., 1889. Prof. Stewart, D.D.
28th Nov., 1890. Prof. Ramsay, LL.D.

University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University ; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage ; to appoint examiners and lecturers ; and to recognize for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.

6. To take proceedings against a principal, professor, lecturer, assistant, examiner, or other University teacher.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee. After such expiration no new professorship shall be founded otherwise.

The Court is intrusted with the patronage of several of the Professorships, appoints the Assistant Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meeting of the University Court during 1890-91 will be found in the Appendix.

SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the ordinary superintendence and regulation of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Principal, as President, has a deliberative and a casting vote. One-third of the Senate constitute a quorum.

GENERAL COUNCIL

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually on the first day of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the Wednesday before the opening (28th October, 1891), and the Wednesday before the close of the Winter Session (27th April, 1892). In addition to these statutory meetings, the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at fifty, being ten for every thousand members, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance of the Universities Commissioners. The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Senior Professor present; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament.

Number of Members of the General Council, 4983. For names of Members, see Appendix.

Members of Parliament for the Universities of Glasgow and Aberdeen.

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
1876. Right Hon. William Watson, LL.D., Lord Advocate.
1880. **James Alexander Campbell, LL.D.**

STUDENTS' REPRESENTATIVE COUNCIL.

The Students' Representative Council consists of representatives from the different years of all the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the students. A Union Committee appointed by the Council completed in session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, and a Song Book Committee.

Presidents of the Students' Representative Council.

1885-86. R. M. Wenley, M.A.
1886-87. Gavin Lambie, M.A.
1887-88. C. E. Robertson, M.B., C.M.
1888-89. John H. Harley, M.A.
1889-90. Robert Bell, M.B., C.M.
1890-91. **William Newlands.**

STUDENTS.

Number of Students in the several Faculties, Session 1890-91 :—

In Arts,	1085
Theology,	83
Medicine (including Summer Matriculation of 1890, 94),	753
Law (including Summer Matriculation of 1890, 3),	192
Arts and Medicine,	33
Arts and Law,	8
Arts and Theology,	10
Medicine and Theology,	1
Law and Theology,	1
	2166

By ordinances No. 3 and No. 22 of the University Commissioners, every student is required at the beginning of each session, to matriculate by enrolling his name in the University Album, before joining any class.* The office of the Clerk of Senate will be open for the purpose of Matriculation on and after Monday, 12th October. The Matriculation Fee is £1 for the Academical year ; for the Summer Session, 10s.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum ; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Theology, Law, and Medicine, according to the nature of their studies ; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions ; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

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* The following addition to Ordinance No. 22, § xxviii., was approved by Her Majesty in Council, on 21st Feb., 1888 : "Provided always that it shall be lawful for the Senatus Academicus, with the approval of the University Court, to sanction the admission of persons who are not matriculated students of the University to any course of instruction in the University not included in the course of study for Graduation in any Faculty, on payment to the General University Fund of an entrance fee of five shillings in addition to the authorized class fee ; but such payment shall not entitle such persons to any other University privilege."

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University.

EXAMINERS FOR DEGREES.

By ordinance No. 14, § ix, of the Universities Commissioners of date 26th Jan., 1861, provision was made for the appointment by the University Court of three persons, not being Professors or Assistants to Professors, to be Examiners, along with the Professors, for the Degree of M.A., one in the Department of Classical Literature, another in that of Mental Philosophy, and the third in that of Mathematical Science, each of whom should receive annually the sum of £80, to be voted by Parliament. By ordinance No. 15, § xvi, of date 16th March, 1861, provision was made for the annual appointment by the University Court of three Assistant Examiners for Degrees in Medicine on a similar footing. But in accordance with an amendment on this ordinance made in 1875, the University Court now appoint fourteen Examiners. And by ordinance No. 75, § vi, three additional Examiners are appointed for the examination of candidates for the Degrees of B.L. and LL.B.

ASSISTANTS TO PROFESSORS.

By ordinance No. 22 of the Universities Commissioners, of date 25th November, 1861, it was provided that an Assistant should be attached to each of the Professorships of Humanity, Greek, Mathematics, and Natural Philosophy, and two (a Teaching Assistant and a Laboratory Assistant) to the Professorship of Chemistry, each of whom should receive a salary of £100, to be annually voted by Parliament. By the same ordinance provision was made for the appointment of an Assistant to the Professor of Anatomy, who should receive a salary from the General University Fund, and of a Joint Assistant to the Professors of Materia Medica and Forensic Medicine, who should receive a salary of £50 by annual Parliamentary vote, instead of whom (by an alteration of the ordinance sanctioned by the Queen in Council) two assistants are now appointed, one to the Professor of Materia Medica and the other to the Professor of Forensic Medicine, each of whom receives a salary of £25. These Assistants are all appointed by the Professors, subject to the approval and control of the University Court. Besides the Assistants for whom provision is made by ordinance, there are attached to several of the classes other Assistants, appointed and paid by the Professors.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Institutes of Medicine; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated every Sunday afternoon during the Winter Session at half past Two o'clock, in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

UNIVERSITY CHAPEL CHOIR.

Organist and Director, Mr. Montague Smith.

Students with good voices and with some knowledge of music, who may be willing to give regular attendance at the weekly meetings for practice and at the Sunday afternoon services, are cordially invited to join the Choir by sending in their names to the Organist, 9 Rosebery Terrace, on or before 1st November, 1891.

GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2,600, and was opened for the first time in January, 1872.

The instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Each student joins a class which meets at the same hour three days in the week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and special evening classes are formed for their benefit.

Fees.—1. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. 2. *For Non-Students:* the Quarter (*i.e.*, twice a week for three months), 15s.; whole season (seven months), 35s.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students is continued by the Gymnasium, and, at the competition in March, 1891, was gained by Frederick R. Stewart. The Bronze Medal for competition among the non-students, is also continued.

Classes are also formed after Christmas to meet twice a week for instruction in boxing and fencing.

The Gymnasium is managed by a joint-committee of professors and students.

Hon. Treasurer, Matthew P. Fraser, LL.B., 91 West Regent Street, Glasgow.

Hon. Secretary, J. Russell Aitken, 2 Woodlands Terrace, W.

EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for war has accepted as equivalent to the Examination at the English and

Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M. A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2 2s. This examination is intended only for students who have actually attended classes in the University.

II.—TABLE OF UNIVERSITY FEES.

I.—Matriculation Fees.			
At the commencement of each Academical Year, which extends from 1st November to 31st October, and includes both Winter and Summer Sessions, ...	£1	0	0
At the commencement of each Summer Session (which extends from 1st May to 31st October), if the Student has not matriculated for the Academical Year then current, ...	0	10	0
II.—Entrance Fees (non-curriculum classes).			
On admission each Session of persons who are not matriculated Students of the University to any course of instruction in the University not included in the course of Study for Graduation in any Faculty, ...	0	5	0
III.—Enrolment Fees (extra-mural lectures).			
At the commencement of each year of attendance on the lectures of private Teachers of Medicine, whose Lectures are recognized for Graduation in the University, ...	0	10	0
IV.—Examination Fees.			
For Degree of Master of Arts (M.A.)—			
On entering for Examination in Classical Department,	1	1	0
,, ,, ,, Philosophical ,,	1	1	0
,, ,, ,, Mathematical ,,	1	1	0
For Certificate of Literate in Arts (L.A.)—			
When all the subjects are taken at one Examination :			
On entering for that Examination, ...	2	2	0
When the Examination is divided :			
On entering for Examination in Department first taken, ...	1	1	0
On entering for Examination in Department taken next, ...	1	1	0

For Diploma for Teachers—			
When the Diploma is delivered,	£2	2	0
For Examination for Candidates for the Army—			
On entering for Examination,	2	2	0
For Degree of Bachelor of Science (B.Sc.)—			
On first entering for Preliminary Examination,	0	10	0
On entering for First Examination in Natural Science,	1	11	6
,, ,, Second Examination ,,	1	11	6
In Engineering Science—£1 1s. each Session in which Candidate is examined, till he has paid	3	3	0
For Certificate in Engineering Science—			
On entering for last subject of Examination,	1	1	0
For Degree of Doctor of Science (D.Sc.)—			
On delivery of Diploma,	10	10	0
For Degrees of Bachelor of Medicine (M.B.), and Master in Surgery (C.M.)—			
On first entering for Examination in General Education (if Candidate is not then a Matriculated Student),	0	10	0
On entering for First Professional Examination,	5	5	0
,, Second ,, ,,	5	5	0
,, Third ,, ,,	5	5	0
,, Fourth ,, ,,	5	5	0
For Degree of Doctor of Medicine (M.D.)—			
On lodging Thesis,	15	8	0
(This includes £10 3s. of Government Duty, etc.)			
For Diploma in Public Health—			
On entering for Examination,	5	5	0
For Degree of Bachelor of Laws (LL.B.)—			
The fee for this Degree is	5	5	0
Payable £1 1s. on each entry for Examination, and balance before Graduation.			
For Degree of Bachelor of Law (B.L.)—			
On first entering for Examination,	1	1	0
,, second ,, ,,	1	1	0
,, third ,, ,, (or before graduation)	1	1	0
For Degree of Bachelor of Divinity (B.D.)—			
On entering for Examination in First Department,	1	11	6
,, ,, Second ,,	1	11	6
For Degree of Doctor of Divinity (D.D.)—			
On delivery of Diploma:			
When the Graduate holds the Degrees of M.A. and B.D. of this University,	13	14	0
When he holds the Degree of M.A. of this University,	16	17	0
In other cases,	20	0	0

V.—LIBRARY FEES.

Each Member of the General Council, each year (commencing 15th October), in which he wishes use of Library, ...	£0	10	6
Or,			
This may be compounded for by a single payment of ...	5	5	0
Every Matriculated Student enrolled in a Class, who wishes use of Library, a *deposit* of	1	0	0
Special Readers—each year in which the privilege is granted, ...	0	10	6

VI.—REGISTRATION FEE.

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The fee is	1	0	0

III.—SEPARATE FACULTIES AND CLASSES.

Winter Session 1891-92.

The University Classes will meet as follows, daily, unless otherwise specified :—

I.—ARTS.

Wednesday, 4th November.

Classes.	*Hours.*	*Class Fees.*			*Professors.*
Humanity, Junior,	8 a.m.,	£3	3	0	Mr. Ramsay.
—— *Middle,*	8 a.m. and 11 a.m.,	3	3	0	
—— *Senior,*	9 a.m. and 1 p.m.,	3	3	0[1]	
—— *Private* (or *Upper Senior*),	1 p.m.,	3	3	0	
Greek, Junior, Tirones,	12 noon,	3	3	0	Mr. Murray.
—— *Provectiores,*	10 a.m.,	3	3	0	
—— *Senior,*	8 a.m. and 2 p.m.,	3	3	0[1]	
—— *Private,*	2 p.m.,	1	11	6	
Logic and Rhetoric,	9 a.m. daily, and 11 a.m. Mon., Wed., and Fri.,	3	3	0	Mr. Veitch.
—— *Higher Course,*	1 p.m., Tues. and Th.,	1	11	6	
Moral Philosophy,	8 a.m. daily, and 11 a.m. Mon.,	3	3	0	Mr. Caird.
—— *Higher Course* (see p. 57),					
Political Economy,	5.30 p.m., Mon., and Th.,	1	11	6	
Natural Philosophy,	9 a.m. daily, and 11 a.m. Tu. and Th.,	4	4	0[2]	Sir Wm. Thomson.
—— *Higher Course,*	12 noon, Mon., Wed., and Fri.,		—		
Physical Laboratory,	10 a.m. to 4 p.m.,	5	5	0	
Mathematics, Lower Junior,	9 a.m. or 10 a.m.,	3	3	0	Dr. Jack.
—— *Upper Junior,*	12 noon or 9 a.m.,	3	3	0	
—— *Senior,*	10 a.m.,	3	3	0	
—— *Upper Senior,*	11 a.m. Mon., Wed., Fri.	2	2	0[3]	
Astronomy,	3 p.m. Tu. and Fri.,	1	1	0	Dr. Grant.

The fee for a Third Session of Latin or Greek is £1 1s.

[2] Fee for a Second Session, £3 3s.

[3] Free to those who have attended the Senior and qualifying course of Mathematics for the degree of M.A.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Civil Engineering and Mechanics, Course I.,	8 a.m., Mon., Wed., and Fri.,	£3 3 0[1]	Dr. Barr.
——— *III.*,	8 a.m., Tues., Thurs., and Sat.,	3 3 0[1]	
——— *IV.*,	9 a.m. daily, ex. Sat.,	3 3 0[1]	
Engineering Drawing and Calculations,	9 a.m. till 5 p.m. daily, except Sat.,	3 3 0[1]	
English Language and Literature,	Junior, 1 p.m, Mon., Tu., Th., and Fri.,	3 3 0	Mr. Bradley.
	Senior, 4.30 p.m., Mon., Wed., Thu., and Fri.,	3 3 0[2]	
Naval Architecture and Marine Engineering, Junior,	11 a.m., Mon., Wed., and Fri.,	3 3 0	Mr. Jenkins.
——— *Senior*,	11 a.m., Mon., Tu. & Th.,	3 3 0	
——— *Practical, Junior*,	2 till 4 p.m., Tu., Wed., Th., and Fr.,	3 3 0	
——— *Senior*,	2 till 4 p.m., Tu., Wed., Th., and Fr.,	3 3 0	

II.—THEOLOGY.

MONDAY, 9TH NOVEMBER.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Divinity, Senior,	11 a.m.,	£3 3 0	Dr. Dickson.
——— *Junior*,	12 noon,	3 3 0	
Hebrew, Junior,	10 a.m.,	3 3 0	Dr. Robertson.
———*Senior*,	9 a.m. daily, and 1 p.m. Tu. and Th.,	3 3 0[3]	
———*Private*,	1 p.m. Mon., Wed., and Fri.,	1 1 0	
Ecclesiastical History, Junior,	11 a.m.,	3 3 0	Dr. Story.
———*Senior*,	12 noon,	3 3 0	
Biblical Criticism,	10 a.m.,	3 3 0	Dr. Stewart.
New Testament Greek,	9 a.m., Tu., Wed., Th.,	2 2 0[4]	

III.—LAW.

TUESDAY, 27TH OCTOBER.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Scottish Law,	8 a.m.,	£4 4 0[5]	Mr. Moody Stuart.
Civil Law,	5.30 p.m.,	4 4 0	
Conveyancing,	8 a.m.,	4 4 0[6]	Mr. Moir.
Forensic Medicine—in Summer (1893) (see under Faculty of Medicine),		3 3 0[5]	Dr. Simpson.
Public Law, (see p. 79),		3 3 0[7]	Mr. W. G. Miller.
Constitutional Law and History (in Summer, 1892),		3 3 0	Mr. R. T. Younger.

NOTE.—The Winter Classes in the Faculty of Law will close on the 6th of April.

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[1] £2 2s. to those students who have already attended two courses; £1 1s. to those who have attended three courses.

[2] £2 2s. to students who have attended the Junior Class.

[3] Enrolment free for a Third Session in the Hebrew Classes.

[4] £1 1s. to Students who are attending the Biblical Criticism Class.

[5] Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

[6] Fee for a Second Session, £2 2s.

[7] Fee for a Second Session, £1 11s. 6d.

IV.—MEDICINE.

Tuesday, 20th October.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Natural History, Zoology,	1 p.m. daily (Oct.),	£3 3 0[1]	Dr. Young.
———— *Geology,*	1 p.m. daily (Jan.),	3 3 0[1]	
Zoological Laboratory,	10 a.m. to 1 p.m. daily (Jan.),	3 3 0[1]	
Botanical Laboratory, (Jan., Feb., Mar.),	10 a.m.,	2 2 0	Dr. Bower.
Clinical Medicine,	9 a.m.,	(see p. 92)	Dr. M'Call Anderson and Dr. Gairdner.
Clinical Surgery,	9 a.m.,	(see p. 92)	Dr. George Buchanan and Sir G. H. B. Macleod.
Chemistry,	10 a.m.,	3 3 0[1]	Mr. Ferguson.
Chemical Laboratory,	10 a.m. to 4 p.m.,	10 10 0	
Junior Anatomy,	2 p.m.,	3 3 0[2]	Dr. Cleland and Demonstrators.
Senior Anatomy,	11 a.m.,	3 3 0[2]	
Practical Anatomy,	9 a.m. to 4.45 p.m.,	3 3 0	
Practice of Medicine,	11 a.m.,	3 3 0[2]	Dr. Gairdner.
Materia Medica,	12 noon,	3 3 0[1]	Dr. Charteris.
Institutes of Medicine,	12 noon,	3 3 0[1]	Dr. M'Kendrick and Muirhead Demonstrator.
Physiological Laboratory,	10 a.m. to 4 p.m.,	—	
Surgery,	1 p.m.,	3 3 0[2]	Sir G. H. B. Macleod.
Forensic Medicine (in Summer),		3 3 0[2]	Dr. P. A. Simpson.
Midwifery,	2 p.m.,	3 3 0[2]	Dr. Leishman.
Diseases of Women (in Summer),		2 2 0	Dr. Leishman.
Pathology,	3 p.m. Mon., Wed., Fri.,	4 4 0[3]	Dr. Joseph Coats.
Lectures on the Eye (in Summer),		2 2 0	Dr. T. Reid.
Insanity (in Summer),		2 2 0	Dr. Yellowlees.

Note.—The Winter Medical Classes will close on Friday, March 25.

Summer Session, 1892.

During the Summer Session, which opens on Monday, April 25, the following courses will be delivered:—

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Botany (College),[4]	8 a.m.,	£3 3[2]	Dr. Bower.
Botanical Laboratory,	9 a.m. to 4 p.m.,	2 2	
Botanical Demonstrations,		—	
Clinical Medicine,	9 a.m.,	(see p. 92)	Dr. M'Call Anderson and Dr. Gairdner.
Clinical Surgery,	9 a.m.,	(see p. 92)	Dr. George Buchanan and Sir G. H. B. Macleod.

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[1] Fee for a Second Session, £2 2s.

[2] Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

[3] Includes Summer Course.

[4] By resolution of Senate, only those courses of Botany which are delivered during the Summer Session are recognized as qualifying for Graduation at this University; and the Winter Course of Lectures on Botany is now discontinued.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
Practical Chemistry,	9 to 11 a.m.,	£3 3[1]	Mr. Ferguson.
Chemical Laboratory,	10 a.m. to 4 p.m.,	5 5	
Organic Chemistry,		—	
Anatomical Lectures,	11 a.m.,	2 2	Dr. Cleland and Demonstrators.
Practical Anatomy,	8 a.m. to 3 p.m.,		
Forensic Medicine,	11 a.m.,	3 3[1]	Dr. Simpson.
Zoology, Lectures,[2]	12 noon,	3 3[1]	Dr. Young.
Zoological Laboratory,	10 a.m. to 1 p.m.,	3 3[1]	
Practical Materia Medica,	12 noon,	3 3[1]	Dr. Charteris.
Practical Physiology,[3]	12 noon,	3 3[1]	Dr. M'Kendrick and Muirhead Demonstrator.
Physiological Laboratory,	10 a.m. to 4 p.m.,	—	
Practical Pathology,[3]	12 noon,	[4]	Dr. Joseph Coats.
Practice of Medicine,	1 p.m. Tu. and Th.,	[5]	Dr. Gairdner.
Operative Surgery,	1 p.m. Mon., Wed., Fri.,	2 2	Sir G. H. B. Macleod.
Diseases of Women,	2 p.m. Tu., Th., Fri.,	2 2	Dr. Leishman.
Lectures on the Eye,	2 p.m. Tu. and Th.,	2 2[6]	Dr. T. Reid.
Constitutional Law and History	(in Summer, 1892)	3 3	Mr. R. T. Younger.
Insanity,	12 noon, Wed. (University), 10 a.m., Sat. (Gartnavel),—	2 2	Dr. Yellowlees.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

Western Infirmary.—This Hospital contains 400 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. W. T. Gairdner, M.D., LL.D.; Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D.; Gavin P. Tennent, M.D.; Prof. W. Leishman, M.D. (*Diseases of Women*). *Assistant Physicians*—Joseph Coats, M.D.; James Christie, M.D. *Surgeons*—Prof. Sir George H. B. Macleod, M.D.; Prof. George Buchanan, M.D., LL.D.; A. Patterson, M.D.; Hector C. Cameron, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D. *Assistant Surgeons*—J. C. Renton, M.D.; George T. Beatson, M.D. *Dispensary Physicians* — John Alexander, M.D.; William G. Dun, M.D.; R. Stevenson

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[1] Fee for a Second Session, £2 2s.

[2] This Course of Lectures in Zoology, as well as that given during the Winter Session, qualifies for graduation.

[3] After first Lecture, the Class will meet in three divisions, 8 to 9 a.m., 11 a.m. to 12 noon, and 12 noon to 1 p.m.

[4] The Fee for the combined Winter and Summer Course is £4 4s.

[5] Open to all Matriculated Students of the University who have completed their Second Winter of Medical study. This course is supplementary to the Winter course, and takes up special subjects to be announced in the Summer bills.

[6] Includes fee for attendance at Eye Infirmary.

Thomson, M.B.; George Dickson, M.D.; C. O. Hawthorne, M.B. *Extra Dispensary Physicians*—James Hinshelwood, M.D.; John H. Carslaw, M.B. *Dispensary Physicians for Diseases of Women*—W. L. Reid, M.D.; Robert Kirk, M.D.; Murdoch Cameron, M.D. *Dispensary Surgeons*—David Newman, M.D.; T. K. Dalziel, M.D.; Duncan Macartney, M.B. *Extra Dispensary Surgeons*—James Parker, M.D.; Henry Rutherfurd, M.B. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.D. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Joseph Coats, M.D. *Vaccinator*—William MacLennan, M.B. *Medical Superintendent*—A. W. Russell, M.A., M.B. *Lady Superintendent*—Miss E. Clyde. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M.; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £2 2s.; free to those attending, or who have attended, the Lectures on the Eye delivered in the University.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

There are also Dispensaries for Diseases of the Skin and Ear, and Clinical Instruction in Fevers is given at the Belvidere Hospital.

FACULTIES IN THE UNIVERSITY.

The whole classes of the University are divided into four Faculties—Arts; Divinity; Law; Medicine.

I.—FACULTY OF ARTS.

The Faculty of Arts embraces the classes of Humanity, Greek, Logic and Rhetoric, Moral Philosophy, Natural Philosophy, Mathematics, and English Language and Literature, on all of which attendance is required for a degree in Arts, and also the classes of Practical Astronomy, Civil Engineering and Mechanics, and Naval Architecture.

HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

Professors from the year 1706.

1706. Andrew Rosse.
1735. George Rosse.
1754. George Muirhead
1773. Wm. Richardson, M.A.
1815. Josiah Walker, M.A.
1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D.

The Humanity Class consists of four divisions—*Junior*, *Middle*, *Senior*, and *Private* (or *Upper Senior*) *Class*, which latter Class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students. Private Students attend the Class without taking part in the Class work.

In all the Classes the Students prepare certain work prescribed, and are examined orally every day. In the Private Class the business is conducted largely by Lectures and Prelections delivered by the Professor.

Junior Class.

The JUNIOR CLASS meets daily from 8 to 9 A.M. on every week day except Saturday. The subjects of study are: Ovid, Tibullus, Virgil, Cicero, Livy—Latin Grammar—Prosody—Easy Latin Prose Composition.

Middle Class.

The MIDDLE CLASS meets daily from 8 to 9 A.M., and from 11 A.M. to 12. The subjects read are: Ovid, Tibullus and Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin. All students entering the Latin Class for the first time in November, 1891 (with the exception of those who pass the Preliminary Examination for entrance into the Senior Class—see Index, *Preliminary Examination in Arts*), will be examined in the above subjects on Thursday, 5th November, at 7.45 A.M., and they will be placed in the Middle or Junior Class, respectively, in accordance with the result of that Examination. A specimen of the paper will be found at the end of the Calendar.

No student below the age of 17 can obtain a Public Certificate qualifying for the Degree of M.A. unless he has passed the University Entrance Examination (see Index). Students below the age of 17, who fail to pass that examination, are allowed to join the Junior Class for purposes of instruction, and to obtain Private Certificates, but cannot gain certificates of attendance qualifying for the degree. Students above the age of 17 who attend the Junior Class will receive Public Certificates qualifying for the degree.

Senior Class.

The SENIOR CLASS meets daily from 9 to 10 A.M., and all students attending the Senior Class have the option also of attending the Private (or Upper Senior) Class from 1 to 2 P.M. The subjects of study in the class at 9 A.M. are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Students may enrol in the Senior Class for Latin Prose only, in which case the Fee is £1 1s.

All students who propose to join the Senior Class are examined on paper, at the commencement of the session, to test their fitness for the Class. The examination for 1891-92 will be held on Thursday, 5th November, at 9 A.M. The paper will include (*a*) Sentences or passages for translation into Latin. Students are expected to have an accurate knowledge of Syntax, as explained in Ramsay's Exercises, Parts I. and II. (*b*) Translation. Passages will be set from Horace, *Odes*, Book I., and from Livy, Book XXII., Cap. 1-26. Students who have attended the Junior or Middle Class in their first Session are required to satisfy the Professor, in the examination prescribed above, that they are fit to enter the Class.

Private or Upper Senior Class, 1 *p.m.*

This Class is an Honour or Third-year Class, at which advanced work is read. All students who attend the 9 A.M. Class attend at 1 P.M. also, unless exempted for special reasons. Students who attend daily at 1 P.M., and do all the work of the Class, receive tickets qualifying for the M.A. Degree.

One subject is read and lectured upon on Mondays and Fridays; another on Tuesdays and Thursdays; on Wednesdays special classes in Latin Prose are held, at which all students of the 9 A.M. Class attend. Students may join any of these courses separately. They are also allowed to attend as Private Students, *i.e.*, as listeners only, without doing any of the work of the Class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend one of the special Sections for Latin Prose which meet weekly at 1 P.M. on Wednesdays, at a fee of £1 1s.

The Students are examined orally and on paper at intervals during the session, both in the subjects read in the Class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin Prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The fee for any of the Classes is - -	£3	3	0
For Students who return for a Third Session,	1	1	0
For Latin Prose only, - - - -	1	1	0

The subjects read in the Session 1891-92 will be as follows:—

1. PRIVATE AND SENIOR CLASS, AT 1 P.M.—Martial (Sellar and Ramsay); Catullus; Tacitus, *Annals* I.; Virgil, *Æn.* XII.

2. SENIOR CLASS, AT 9 A.M.—Propertius (Ramsay); Cicero, *De Amicitia* (Sidgwick); Horace, *Epistles* I.

3. Middle Class, at 8 a.m.—Cicero, *Epistles* (Prichard and Bernard); Virgil, *Georgic* IV. (Sidgwick).

At 11 a.m.—Selections from Tibullus and Propertius (Ramsay); Cicero, *Pro Lege Manilia* (Wilkins); Virgil, *Æn.* IV. (Sidgwick).

4. Junior Class, at 8 a.m.—Selections from Tibullus (Ramsay); Cicero, *Catiline Orations* (Wilkins).

N.B.—*Attendance on the Middle Class of Humanity does not count in place of attendance on the Senior Class for the purpose of Graduation in Arts except by special leave granted by the Senate on the recommendation of the Professor.*

GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.
1746. James Moor, LL.D.
1774. John Young, M.A.
1821. Sir Daniel K. Sandford, MA.
1838. Edmund L. Lushington, LL.D.
1875. R. C. Jebb, Litt. D., LL.D.
1889. G. G. A. Murray, B.A.

The Greek Class consists of three divisions, the Senior, the Middle, and the Junior. Students not requiring a public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

In all the Classes a certain piece of work is prescribed every day, and the class examined orally upon it. Besides this, at least twice in the session all the Classes are examined on paper on their whole work.

Students are placed in the several Classes in accordance with the result of an Examination held at the opening of the session.

The Examination for entrance to the Senior and Middle Classes will be held on Friday, 6th November, 1891. Accurate knowledge of *Rutherford's Grammar, Accidence, Part I.*, will be required for entrance to the Upper Middle Class. Candidates for the Senior Class will also be given a piece of unseen translation. Candidates may profess for examination the first book of Xenophon's Memorabilia.

A passing of the University Preliminary Examination, or a First or Second Class Certificate in the Upper Middle, or a First Class Certificate in the Lower Middle, qualifies without further examination for the Senior.

A Second or Third Class in the Lower Middle, or a First Class in the Junior, qualifies for the Upper Middle: so does a certain standard lower than the Pass, in the University Preliminary Examination.

JUNIOR CLASS ('TIRONES').

The Junior Class meets at 12 noon every week day except Saturday.

All students should possess the following books: *Ancient Atlas; Greek Lexicon*, Liddell & Scott (large or intermediate edition); *Primer of Greek Literature*, Jebb; *Greek Grammar*, Rutherford.

All students before joining the Class should prepare the above mentioned Grammar to the end of the Verb.

The Class reads extracts from Xenophon and other Greek writers. There are also written exercises in Greek Composition, and examinations in Grammar and the elements of Philology.

MIDDLE CLASS ('PROVECTIORES').

The Middle Class meets at 10 A.M. on every week day except Saturday.

The Class usually reads the easier Attic authors, including Lucian. Written exercises in Greek Composition form part of the work.

For teaching purposes the Class is divided into two sections, called 'Upper' and 'Lower' Middle respectively.

SENIOR CLASS.

The Senior Class meets at 8 A.M. and certain members of it at 2 P.M. on every week day except Saturday.

(1) 8 A.M.

At 8 A.M. the Class reads various Greek authors, and is examined orally every day. Composition is done at this hour.

(2) 2 P.M. ('SENIOR AND PRIVATE').

At 2 P.M. more advanced work is done: a certain portion of the work bears specially upon the Degree, both for Pass and for Honours. Members of the Senior Class are recommended to attend, but are not in any way bound to do so. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the Class.

Greek Composition forms part of the work.

There is less oral examination in the teaching of this Class, the Professor generally giving lectures or prelections.

Fee for any Public Class, - - - - -	£3	3	0
For attending as a Private Student at 2 P.M.,	1	11	6
For a Third Session in any Class, - -	1	1	0

Subjects for Session 1891-92.

JUNIOR CLASS.—Rutherford's *Greek Grammar;* Sidgwick's *First Greek Writer.* Morice's *Stories in Attic Greek; Scenes from Euripides* (Sidgwick).

MIDDLE CLASS.—Xenophon, *Cyropaedia* IV.-V. (Bigg); Euripides, *Medea* (Verrall); Lucian, *Selections by Abbott;* Composition.

SENIOR CLASS.—Plato, *Apology* (Adam); Homer, *Iliad* XVI. (Monro); Aristophanes, *Birds* (Merry); Composition—Sidgwick's *Greek Prose.*

SENIOR AND PRIVATE CLASS.—Pindar, *Pythian Odes* (Fennell); Aeschylus, *Choephoroi* (Sidgwick); Thucydides, IV. 1-41; Composition.

N.B.—*Strictly speaking, no student can proceed to his Degree in Arts without a session in the Senior Greek Class. When, however, a student is prevented from attending at 8 a.m. he may obtain a Senior Certificate by attending at 2 p.m. provided that he passes both the written examinations. Under special circumstances a student is allowed to count a session of the Middle Class as equivalent to a session of the Senior, provided that it is impossible for him to attend the Senior, and that by his work during the session and in both the examinations he satisfies the Professor that he is worthy of a Senior Certificate.*

LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. John Loudon.

1751. Adam Smith, LL.D.	1787[1]. George Jardine, M.A.
1752. James Clow.	1827[2]. Robert Buchanan, LL.D.

1864. JOHN VEITCH, LL.D.

This Class meets daily, on five days of the week, from 9 to 10 A.M. for Lecture, and on Mondays, Wednesdays, and Fridays, from 11 to 12 noon, for Oral Examination and the Reading of Exercises and Essays.

The Course of Lectures is so arranged as to embrace the following subjects in each session :—

I. PSYCHOLOGY AND METAPHYSICS—under which is given an account of the Faculties and Capacities of the Mind, and of the General Nature, Limits and Objects of Human Knowledge.

II. LOGIC.—(A) Pure or Formal Logic, embracing the Doctrine of Notions (Terms), Propositions, Reasonings, Fallacies. (B) Applied or Material Logic, embracing the Theory and Processes of Science (Observation, Induction, Deduction), and the General Laws of Evidence. Instruction in Logic is conveyed partly by means of a text-book, viz., *Institutes of Logic.*

III. RHETORIC.—A portion of the course is devoted to the Principles of Rhetorical and Oratorical Excellence.

Exercises and Essays on subjects connected with the course are prescribed to the students ; and General Written Examinations take place at regular intervals during the currency of the session.

The Class is annually arranged into two divisions, Senior and Junior, according to the age of the students; and prizes, adjudged by the votes of their class-fellows, are assigned, in each of the divisions, to those who have most distinguished themselves by diligence, proficiency, and ability in the exercises and examinations of the session.

The Fee for the Ordinary course is £3 3s.

An advanced Class for the HIGHER METAPHYSICS—embracing the subjects prescribed for honours in Mental Philosophy, meets twice a week, on Tuesdays and Thursdays from 1 to 2 P.M.

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[1] Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

[2] Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

Fee for the Advanced Course, - - - £1 11 6

N.B.—*To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.*

MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Gerschom Carmichael.
1730. F. Hutcheson, LL.D.
1746. Thomas Craigie.
1752. Adam Smith, LL.D.
1764. Thomas Reid, D.D.
1796[1]. Archd. Arthur, M.A.
1797. James Mylne, M.A.
1839. William Fleming, D.D.
1866. EDWARD CAIRD, LL.D.

The Moral Philosophy Class meets at 8 A.M. on five days of the week for Lecture, and at 11 A.M. on Mondays and 8 A.M. on Saturdays for examination. Public students must attend at the hours of Lecture, and either on Saturday at 8 A.M. or on Monday at 11 A.M. for examination. In the Lectures, Moral Philosophy is treated both historically and systematically.

One of the most important works on Moral Philosophy is usually selected in each year as the text-book (the work selected to be announced at the beginning of the session); and in connection with it Lectures will be given on Metaphysics and Psychology as the basis of morals, on the principles of Jurisprudence and Social Ethics, and on the relations of Ethics to Theology. An account will also be given of the historical development of Morals, and of the main ancient and modern theories on ethical and social subjects.

In the Higher Moral Philosophy Class Mr. Caird will lecture upon one or other of the subjects for the Degree with Honours, at an hour to be fixed according to the convenience of students.

In the Political Economy Class Mr. Smart (acting as assistant to Professor Caird) will lecture on Mondays and Thursdays, beginning on Monday, 9th November.

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[1] Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

Fee for the Moral Philosophy Class, - -	£3 3 0
Fee for the Political Economy Class, - -	1 11 6

N.B.—*To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.*

NATURAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Robert Dick.
1751. Robert Dick, M.D.
1757. John Anderson, M.A.
1796. James Brown, LL.D.
1803. W. Meikleham, LL.D.
1846. Sir William Thomson, LL.D., D.C.L., F.R.S.

The Natural Philosophy Class meets daily at 9 A.M., and at 11 A.M. or 12 noon.

The first hour is chiefly spent in statements of Principles, descriptions of Results of Observation, and experimental Illustrations. The second hour is devoted to Mathematical Demonstrations and Exercises, and Examinations on the Elementary parts of the course, on Tuesdays and Thursdays at 11 A.M.; and to a higher Mathematical Course on Mondays, Wednesdays, and Fridays, at 12 o'clock.

The text-books used are—

"A Treatise on Natural Philosophy," by Professors Sir William Thomson and P. G. Tait (Cambridge University Press); "Elements of Natural Philosophy," by the same authors (Cambridge University Press); "Dynamics and Hydrostatics," by J. T. Bottomley (W. Collins & Sons); "Heat ' and "Elasticity," vol. iii. of Sir W. Thomson's "Mathematical and Physical Papers" (Cambridge University Press); Deschanel's "Experimental Physics," translated by Everett; "Physical Optics," by R. T. Glazebrook (Longmans & Co.); "Absolute Measurements in Electricity and Magnetism," by A. Gray (Macmillan & Co.); "Mathematical Tables," by J. T. Bottomley (Macmillan & Co.); "Exercises in Natural Philosophy," by M. Maclean (James MacLehose & Sons).

The more elementary of the treatises by Thomson and Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. The whole, or certain specified parts of the larger treatise, will be prescribed in connection with voluntary examinations and exercises in the class, and for candidates for the degree of M.A. with honours. Students who desire to undertake these higher parts of the business of the Class ought to be well prepared on all the subjects of the Senior Mathematical Class.

The Laboratory in connection with the Class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistant, and the Demonstrator in Experimental Physics.

The main divisions of the course are—

(1) Abstract Dynamics (including Elements of Physical Astronomy); (2) Properties of Matter; (3) Thermodynamics; (4) Illustration.

Illustration is conducted partly through examples and calculations; partly by experiment.

A programme of the subjects that will be taken up, as far as time permits, during the Session 1891-92, will be published before the commencement of the Session, and may be had on application at the Natural Philosophy Class-room.

Fee for the Natural Philosophy Class, - -	£4	4	0
,, Students of the Second Year, -	3	3	0
,, Physical Laboratory, - - -	5	5	0

For the Arnott and Thomson Demonstratorship in Experimental Physics, see p. 92.

N.B.—*For a Degree in Arts attendance on the qualifying course of Natural Philosophy must be subsequent to the completion of the qualifying course of Mathematics.*

MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court.

Professors from the year 1691.

1691. George Sinclair.
1699. Robert Sinclair, M.D.
1711. Robert Simson, M.D.
1761. James Williamson, D.D.
1796[1]. James Millar, M.A.
1832. James Thomson, LL.D.
1849. Hugh Blackburn, LL.D.
1879. WILLIAM JACK, LL.D.

Lower Junior Class,

(Or FIRST YEAR'S COURSE.) Subjects: *Euclid* and *Algebra*, both from the beginning. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 10 to 11.

Upper Junior Class,

(Or SECOND YEAR'S COURSE), for Students who have attended the first year's course, or who have otherwise acquired a knowledge of Euclid, Books I., II., III., IV., and of Algebra, as represented by the first twenty-two Chapters (Chaps. XIV., XV., XIX. excepted) of Todhunter's larger text-book. Subjects: *Euclid*, Books V., VI., and XI., more advanced *Algebra* and the elements of transversals, *Elements of Trigonometry*. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1. The latter is subdivided into two sections according to acquirements ascertained by an examination in the first fortnight of the session.

Senior Class,

(Or THIRD YEAR'S COURSE.) Subjects: *Plane Trigonometry, Geometrical and Analytical Conics, Differential and Elements of Integral Calculus.* The Senior Class meets from 10 to 11 daily, except on Saturdays.

Upper Senior Class.

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations, Finite Differences.* The Class meets at 11-12 on Mondays, Wednesdays, and Fridays.

Attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Upper

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[1] Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

Junior or the Senior Class, is required for the degree of M.A., "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on the Senior Class for one session is sufficient.

The Fee for each Session is - - - - -	£3	3	0
The Fee for the Upper Senior Class is - -	2	2	0

No Fee is charged for the Upper Senior to students who have completed their qualifying course of attendance for M.A., and who have attended the Senior Class. All the Mathematical Classes are free to students who have attended three complete sessions.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

N.B.—*Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. must be subsequent to the completion of the qualifying course of Mathematics. Two Sessions of the Lower Junior Class of Mathematics do not constitute two Sessions of Mathematics for the purpose of graduation in Arts.*

PRACTICAL ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown.

Professors.

1760. Alexander Wilson, LL.D.
1784[1]. Patrick Wilson, LL.D.
1799. W. Meikleham, LL.D.
1803. James Cooper, D.D.
1836. John P. Nichol, LL.D.
1859. Robert Grant, LL.D., F.R.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the immediate vicinity of the University buildings. The principal instruments are :—A Meridian Circle of three feet six inches diameter, by Ertel of Munich; and an equatorially-mounted Refractor, of nine inches aperture, and thirteen feet focal length, by Cooke of York. The acquisition of the latter instrument is mainly due to the liberality of a few private gentlemen chiefly residing in Glasgow.

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[1] Dr. P. Wilson was assistant to his father from 5th June, 1782.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Professor of Practical Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a short Course of Lectures on Astronomy at the College during the session, and gives expositions on instruments and methods of observation at the Observatory. The fee for the Course is £1 1s.

CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment[1] by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.[2]

Professors.

1840. Lewis D. B. Gordon, C.E.
1855. William J. Macquorn Rankine, C.E., LL.D.
1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
1889. Archibald Barr, D.Sc., M.Inst.C.E.

The Courses of the Professor of Engineering extend throughout the winter session, that is from the beginning of November till the end of April. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Calculations, and visits to Engineering Works and Manufactories.

These Courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or

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[1] The annual income of a sum of £5000.

[2] The salary for the Young Assistantship thus founded is £140, or thereby.

Mining Engineering, but the work of the Classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the Classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The Classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Four Courses of Lectures are arranged for, three of which will be delivered in each session.

To suit the convenience of men engaged in offices and works, two of the Classes will be held at 8 A.M., and the advanced course will be held at 9 A.M.

COURSE I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Mondays, Wednesdays, and Fridays, at 8 A.M.—The Lectures will treat of the Origin, Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete, and of the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

COURSE II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—This Class will not be held during the present session. It will be held in alternate years with Course III., on Tuesdays, Thursdays, and Saturdays, at 8 A.M. Surveying with the Chain and with Angular Instruments; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earthworks, etc. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

COURSE III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—Tuesdays, Thursdays, and Saturdays, at 8 A.M. The Lectures will treat of the Theory of Steam and Gas Engines, the structural details of Boilers and Engines, the Mechanics of Machinery, the Elements of Machine Design, the Transmission of Power, and Friction and Lubrication in Machines. Attendance on this Course should be preceded by attendance on Course I. in the case of students entering with no knowledge of Mechanics.

COURSE IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.—Daily, except Saturday, at 9 A.M. The Lectures will treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, &c.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

Fee for each of the first and second courses taken,	£3	3	0
Fee for a third course, - - - - - -	2	2	0
Fee for a fourth course, - - - - - -	1	1	0

ENGINEERING DRAWING AND CALCULATIONS.—The drawing class room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work in connection with the Classes. The work of the Classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing, Descriptive Geometry, and Graphical Statics, and special times will be set apart for the performance of graphical work and calculations in connection with the lecture courses.

The scale of Fees is the same as that for the Lecture Courses.

Recommendation.—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.

As to the Certificate of Proficiency in Engineering Science, see Index.

As to the Muir Bursaries, the Metcalfe Bursaries, the Walker Prizes and the George Harvey Prize, in the Department of Civil Engineering and Mechanics, see Index.

ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commissioners of date 25th November, 1861, and is in the gift of the Crown.

Professors.

1862. John Nichol, LL.D.
1889. ANDREW CECIL BRADLEY, M.A.

The Classes meet on four days of the week—the Junior Class on Monday, Tuesday, Thursday, and Friday, at 1 P.M.; the Senior Class on Monday, Wednesday, Thursday, and Friday, at 4.30 P.M. Attendance at either of these Classes will qualify students to proceed to their degrees. As the subject will be treated in a somewhat more advanced manner in the Senior Class, students who have already some knowledge of English Literature are strongly recommended to take that Class.

Public students in both classes are examined orally. They are also required to pass written examinations, and to hand in exercises on subjects set from time to time.

JUNIOR CLASS.

The work of the Class will comprise the following subjects:—

1. English Composition. Text-books: Nichol's *Composition Primer*, and Nichol and M'Cormick's *Questions and Exercises on English Composition.*

2. The Literature of the age of Shakespeare, with special reference to Shakespeare and other dramatists. Text-books: Shakespeare's Works (the Globe edition is recommended, but any edition may be used), and *British Dramatists*, published by Nimmo. The literary history of the period may be studied in Shaw's *Students' Manual of English Literature*, or Arnold's *Manual of English Literature.*

3. (*a*) Chaucer's *Prologue* to the Canterbury Tales, as edited (together with the Knight's Tale and the Nun's Priest's Tale) by Morris for the Clarendon Press.

(*b*) Coleridge's *Ancient Mariner*, *Christabel*, and Odes entitled *France* and *Dejection.* Any edition of Coleridge may be used.

SENIOR CLASS.

The work of the Class will comprise the following subjects :—

1. More advanced lectures on English Composition (Text-books as above), together with lectures on English Philology.

2. The Literature of the Age of Shakespeare, with special reference to Shakespeare and other dramatists. Text-books: Shakespeare's Works (the Globe edition is recommended, but any edition may be used), and *British Dramatists*, published by Nimmo. The literary history of the period may be studied in Shaw's *Students' Manual of English Literature* or Arnold's *Manual of English Literature.*

3. (*a*) Chaucer's *Prologue* to the Canterbury Tales, as edited (together with the Knight's Tale and the Nun's Priest's Tale) by Morris for the Clarendon Press.

(*b*) Matthew Arnold's Selections from Wordsworth.

Class Fees—For either Class, £3 3s. For second year's attendance, £2 2s.

N.B.—*For students who attend the above Classes the subjects specified above will be the subjects of the Degree Examinations in* 1892 *and* 1893. *The subjects of the Degree Examinations in* 1892 *for those who attended the English Literature Classes in Sessions previous to that of* 1891-92 *will be found on p.* 127.

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

Professors.

1883. Francis Elgar, LL.D. | 1886. PHILIP JENKINS.

The Courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and the Theory of the Steam Engine and Marine Engine Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and the Steam Engine; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of

Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 11 A.M. The Classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 4 P.M. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 4 P.M., or at any other hour that may be found convenient.

Class Fee—For any Class, £3 3s.

A special Course of Evening Lectures will be given during the winter session of 1891-92, on the Resistance of Ships, for which a student of any of the day classes may be enrolled without payment of any extra fee.

The fee for this Course only is one guinea, and the University fee five shillings.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Clydebank Scholarship, the Lloyd's Register Scholarship, and the Elder Bursaries, see Index.

II.—FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Oriental Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular Sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the Classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.[1] In order to be admitted to this examination he must produce, in addition to the certificate from the Presbytery recommending him, the diploma of a Master of Arts, or certificates from the several Professors under whom he has studied, that he has attended regularly all the classes prescribed by the Church for students who intend entering the Hall—viz., Latin, Greek, Logic, Mathematics, Moral Philosophy, Natural Philosophy, and English Literature, in such order as is prescribed at the University in which he has studied, and to the extent required for proceeding to the degree of Master of Arts. If he produces evidence that he holds the degree of Master of Arts, or that he has passed all the examinations required for taking that degree, it is competent for the Examining Committee to exempt him from examination in those branches of Literature and Science proficiency in which is denoted by such a degree. The examination extends also to the *New Testament in Greek* and the *Elements of Hebrew Grammar*.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several

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[1] The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the "Missionary Record" of the Church of Scotland for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees. The programme of the books and subjects of examination for Session 1891-92 will be found in the "Missionary Record" for April, 1891.

Professors, under whom he has studied, of his good conduct and proficiency.

By Act XX. of the General Assembly, 1889, it is enacted—"That all students of Theology, who have completed the prescribed course of theological instruction, shall, before applying to any Presbytery to be taken on trial for licence, be examined by the Synodical Committee already existing for the examination of students entering the Divinity Hall—with such addition to the number of members of each of the said Examining Committees as the General Assembly shall determine—on the various subjects of theological study, leaving to Presbyteries the powers of examination for licence hitherto possessed and exercised by them; but providing that every candidate for licence by a Presbytery shall produce to the Presbytery a certificate from one of the said Examining Committees that his examination by them has been sustained; it being always competent to the said Examining Committees to exempt students who have taken the degree of Bachelor in Divinity at one of the Universities of Scotland from examination in those subjects of theological study, proficiency in which is denoted by the said Degree."[1]

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,[2] during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce before being taken on trials, due evidence of such attendance.

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with Class Certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a Certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

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[1] The dates of examination and the subjects fixed by each Board will be intimated in the "Missionary Record" for December, 1891.

[2] For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognized:—Mr. G. W. Baynham, 43 Athole Gardens, Dowanhill; Mr. Henry Cooke, 202 Hope Street; Mr. Thomas Harrower, 197 Pitt Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mrs. Cunningham Craig, 11 Kersland Street, Hillhead; and Mr. John Forsyth, Motherwell.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

Professors.

1640-50. David Dickson.
1642-61. Robert Baillie.
1653. John Young.
1669. Gilbert Burnet, D.D.
1674. David Liddell.
1682. Alexander Ross, D.D.
1688. James Wemyss, D.D.
1692. James Wodrow.
1708. John Simson.
1740. Michael Potter.
1744. William Leechman, D.D.
1761. Robert Trail, D.D.
1775. James Baillie, D.D.
1778. William Wight, D.D.
1782. Robert Findlay, D.D.
1814. Stevenson Macgill, D.D.
1840. Alexander Hill, D.D.
1862. John Caird, D.D.
1873. WILLIAM PURDIE DICKSON, D.D., LL.D.

The Course of Theology extends over three sessions. The Lectures during next session will treat partly of Biblical Theology, partly of the History of Doctrine, and of Apologetics. A portion of time will be devoted to instruction in Systematic

Theology on the basis of a text-book. Essays and Discourses are prescribed to the students. In addition to the oral examinations on the Lectures, examinations in writing on the studies of the Class will be held at intervals during the session.

The Class will meet on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock. Fee for each session, Three Guineas.

ORIENTAL LANGUAGES.

This Professorship was founded by Queen Anne, 1709. The Professor is appointed by the University Court.

Professors.

1709. Charles Morthland.
1745. Alexander Dunlop, M.A.
1751. William Rouet.
1753. George Muirhead.
1755. John Anderson, M.A.
1757. James Buchanan, M.A.
1761. Robert Trail, D.D.
1761. Patrick Cumin, LL.D.
1814. Gavin Gibb, D.D.
1831. William Fleming, D.D.
1839. George Grey, D.D.
1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.

ARRANGEMENT OF CLASSES FOR SESSION 1891-92.

I. *Junior Class* (*Hebrew*), five days in the week at 10 A.M. (1) Hebrew Grammar, from the elements; (2) Readings from the easier Scriptures; (3) Lecture once a week on Old Testament Introduction; (4) Daily oral examinations, weekly written exercises, and four written examinations during the session. Students preparing for the ministry are recommended to take this class before entering the Divinity Hall.

II.—*Senior Class* (*Hebrew*), five days in the week at 9 A.M., and Tuesday and Thursday at 1 P.M. (1) Revisal of Grammar, study of the syntax and the accents; (2) Reading from the Hebrew Scriptures; (3) Daily oral examination, weekly written exercises, expository essays, and four written examinations during the session; (4) Expository lecture once a week by the Professor.

The one o'clock hour on Tuesday and Thursday will be given, in the first part of the session, to revisal of grammar. Students found sufficiently prepared will be exempted from attendance at this hour; and with this view a written examination will be held at the commencement of the session on Davidson's Grammar.

III.—*Private Class* (*Aramaic*), Monday, Wednesday, and Friday, at 1 P.M.

Class Fee, £3 3s. Students who have taken two complete sessions may enrol for a third or a fourth free. The fee for the Private Class is £1 1s.

ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

By his Commission, the Professor of Ecclesiastical History is also Teacher of Civil History in the University.

Professors.

1721. William Anderson.
1752. William Rouet.
1762. William Wight, D.D.
1778. Hugh M'Leod, D.D.
1807[1]. William M'Turk, D.D.
1841. Jas. Seaton Reid, D.D.
1851. Thos. T. Jackson, D.D.
1874. William Lee, D.D.
1886. Robert Herbert Story, D.D.

The course extends over two sessions, and embraces a series of lectures as well as oral and written examinations. The junior and senior classes meet at separate hours, the junior from 11 to 12 o'clock, the senior from 12 to 1 o'clock.

Both classes are open to non-professional students. The fee for each session is Three Guineas.

DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commissioners, of date 25th November, 1861. The Professor is appointed by the Crown.

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[1] Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

Professors.

1863. William P. Dickson, D.D.
1873. William Stewart, D.D.

This Class will meet on five days of the week, at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the Class should accordingly be attended in two *consecutive* years.

The lectures for 1891-92 will treat of the principles of Textual Criticism, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the Class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Fee for each session, Three Guineas.

Class of New Testament Greek.—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. It will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Tuesday, Wednesday, and Thursday, at 9 A.M. Fee, for students who are attending, or have attended the Class of Biblical Criticism, One Guinea; for others, Two Guineas.

III.—FACULTY OF LAW.

The Faculty of Law embraces the classes of Law (including Scotch Law and Civil Law) and Conveyancing, and also the class of Medical Jurisprudence. In this Faculty there are also Lectureships on Public Law and on Constitutional Law and History. The Lecturers are appointed for the term of four years.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. or LL.B. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged (except with the sanction of the Dean and his Council, upon special application before the year commences) in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance on a certain course of study in Law. The attendance so required is as follows:—(1) attendance during at least one session as a pupil in a class of Scots Law, and a class of Conveyancing, in a Scottish University; (2) attendance during at least one session as a pupil in a class of (*a*) Civil Law, (*b*) Public or International Law, and (*c*) Constitional Law in a Scottish University or in such other University as may be approved of by the Dean and his Council, and (*d*) Medical Jurisprudence, in a University, or in a School recognized as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined (1) on Civil Law, (2) on Private International Law, and (3) on Scots Law. If, however, the intrant has obtained the degree of LL.B. from a Scottish University he is held qualified in General Scholarship and Law without examination or other evidence of qualification, and may at once proceed to what is termed his "Public Examination," subject to the condition that during the year immediately before presenting his diploma he shall not have been engaged in any trade, business, or profession, as above set forth, except with the previous sanction of the Dean and his Council. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrants shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, 36 and 37 Vict., c. 63 and by certain relative Acts of Sederunt of the Court of Session, including one dated 20th December, 1873, prescribing rules as to subjects of examination and certain conditions of admission. The Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination. The above-mentioned Act of Sederunt provides that (save in certain special excepted cases) no one shall be admitted as an apprentice until he has passed an Entrance Examination by the Examiners appointed by the Court. It also prescribes the subjects of that examination as well as of the examinations in General Knowledge and in Law which (subject also to certain exceptions) every applicant for admission as a Law Agent is required to pass before the same Examiners. An apprentice or applicant for admission is exempted from any entrance examination or examination in General Knowledge, if (*inter alia*) he holds a degree of any University in Great Britain or Ireland granted after examination, or if he has attended in three separate sessions three separate classes in Arts in any Scottish University (one of such classes being Humanity), and has taken part in the examinations in such classes. Also apprentices and applicants for admission who hold Leaving Certificates granted by the Lords of the Committee of the Privy Council on Education to pupils of Higher Class Schools, are exempted from examination in the subjects which these Certificates cover, Certificates of any Grade being sufficient for the Entrance Examination, but Higher Grade Certificates being necessary for the General Knowledge

Examination. By an Act of Sederunt of 20th July, 1878, it is declared not to be necessary for any applicant for admission who holds the degree of LL.B. or B.L. of any Scottish University to undergo an examination in Law before the Examiners, excepting only on Forms of Process, Civil and Criminal. By an Act of Sederunt of 4th November, 1886, it is provided that, while it is not necessary for admission as a Law Agent that any applicant shall have attended the classes of Scots Laws and Conveyancing in a Scottish University, it shall be in the power of the Examiners, in conducting the examination of any applicant, to take into account whether such applicant has or has not attended such classes.

For Regulations as to Graduation in Law, see Index.

LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

Professors.

1714. Wm. Forbes, Advocate.
1746. Wm. Cross, Advocate.
1750. Hercules Lindsay, LL.D.
1761. John Millar, Advocate.
1801. R. Davidson, Advocate.
1842. Allan A. Maconochie, Advocate.
1855. Geo. Skene, Advocate.
1867. Robert Berry, M.A., LL.D., Advocate.
1887. ALEXANDER MOODY STUART, Advocate.

1. SCOTCH LAW.—The course extends to about 100 Lectures, embracing as full a course of Scotch Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale, at Common Law and as affected by Statute; Stoppage *in transitu;* Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Marine, Fire, and Life Insurance; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succes-

sion in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-book recommended to Students is Bell's *Principles of the Law of Scotland.*

The Class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary Class examinations, which are conducted in writing.

The Fees for the Class of Scotch Law are £4 4s. for the first year of attendance, £2 2s. for the second, and £1 1s. for the third.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

2. CIVIL LAW.—In addition to the class of Scotch Law, a class of Civil Law will be formed in alternate sessions.

The text-book recommended is Moyle's *Institutes of Justinian.*

The Fee for the Class is £4 4s.

It is proposed to form a class of Civil Law in session 1891-92.

CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commissioners, of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

Professors.

1862. Anderson Kirkwood, LL.D.
1867. Sir James Roberton, LL.D.
1889. JAMES MOIR, Member of the Faculty of Procurators, Glasgow.

The Course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The Class meets every day, except Monday, from 8 to 9 A.M.

The text-book recommended is Professor A. M. Bell's *Lectures on Conveyancing.*

Fees.—First year, £4 4s.; second year, £2 2s.

Prizes are given for eminence in the Class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this Class and in the Class of Scots Law.

MEDICAL JURISPRUDENCE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.

This Course qualifying for graduation in Law (B.L. and LL.B.), extends to upwards of 40 Lectures, and is chiefly devoted to the following medico-legal subjects—viz., Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Poisoning by Arsenic; Examination of Blood Stains; Legitimacy; Insanity. The foregoing are the subjects prescribed for examination in the department of Law. The

Class will meet in alternate years in the Rooms of the Philosophical Society, 207 Bath Street, on five days a week—viz., Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8.45 A.M., commencing early in April. (*Text-book—Principles of Forensic Medicine* by Guy and Ferrier.)

Fee for the Course, £3 3s. The next Course will be given in 1893.

(See under Faculty of Medicine, p. 91.)

PUBLIC LAW.

This Lectureship was instituted by the University in 1878.

Lecturer.

1878. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

The Course extends to 40 Lectures, and comprises—

1. Some Introductory Lectures on the relation between Jurisprudence and the other branches of Philosophy, and between the different branches of Positive Law. *Text-Book*—Miller's *Philosophy of Law.*
2. A series of Lectures on a period of the History of International Law.
3. A course of Public International Law. *Text-Book*—Hall's *International Law.*
4. A similar course of Private International Law. *Text-Book*—Guthrie's *Savigny's Private International Law.*

Students intending to join the Class are recommended to acquire a general knowledge of the leading events of the modern history of Europe and America. The following books will be found useful: Freeman's *General Sketch of European History*, Doyle's *History of America*, May's *Democracy in Europe*, Flint's *Philosophy of History*, Freeman's *Historical Geography*, Spruner's *Historical Atlas*, Nichol's *Tables of European History, etc.*

Students who have not attended the Moral Philosophy and Political Economy Class are recommended to study such works as Sidgwick's *Methods of Ethics*, Bradley's *Ethical Studies*, or Green's *Prolegomena to Ethics*, or his *Lectures on the Principles of Political Obligation* contained in his Philosophical Works (vol. ii.); Marshall's *Principles of Economics*, Rogers's *Economic Interpretation of History.*

The Class meets in the Faculty Hall, St. George's Place, during the Winter Session, on Mondays and Thursdays, at 5.30 P.M. It meets in alternate winters, alternating with the Civil Law Class. There will be no Class in Public Law in session 1891-92.

Class Fee—First year, £3 3s. ; second year, £1 11s. 6d.

CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878.

Lecturers.

1878. Charles Scott Dickson, M.A., Advocate.
1878. Alexander Ure, M.A., LL.B., Advocate.
1889. ROBERT T. YOUNGER, M.A., LL.B., Advocate.

The Lectures will be partly Doctrinal and partly Historical. They will embrace chiefly the subjects discussed in the text-books prescribed for those who propose taking the degrees of B.L. and LL.B. The Doctrinal Lectures will deal with the law and custom of the Constitution at the present time. The Historical Lectures will cover the period from the Norman Conquest to the present reign. Examinations in writing on the Lectures and on subjects to be prescribed by the Lecturer, will take place at short intervals throughout the session.

The Class will meet in alternate years during the Summer Session in the Faculty Hall, St. George's Place, five days a week, viz. :—On Monday, Tuesday, Wednesday, Thursday, and Friday, at 5.30 P.M. Fee for the Course, £3 3s.

The Class will meet in the Summer Session of 1892.

IV.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Institutes of Medicine, Medical Jurisprudence, Clinical Surgery, Clinical Medicine, and Pathology, on all of which attendance is required for the Degree of M.B. To this Faculty also belong the Lectureship on Diseases of the Eye, the Lectureship on Insanity, and the Courses of instruction necessary for the Diploma in Public Health.

PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D.
1751. William Cullen, M.D.
1756. Robert Hamilton, M.D.
1757. Joseph Black, M.D.
1766. Alex. Stevenson, M.D.
1789. Thomas C. Hope, M.D.
1796. Robert Freer, M.D.
1827. Charles Badham, M.D.
1841. William Thomson, M.D.
1852. John M'Farlane, M.D.
1862. William Tennant Gairdner, M.D., LL.D.

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard especially to those general principles and doctrines which are more directly available at the bedside of the sick. It is the object of the Lecturer to enforce these principles from a variety of points of view, rather than to give a complete synopsis annually of the individual details of practice in all departments. He is, therefore, in the habit of varying the arrangement of the course from year to year, in order that the mind of the student may be brought to bear upon different aspects of the subject with sustained and renewed attention. In 1891-92 the first part of the course will be occupied with the principal, and especially the specific, Fevers; and precedence will be given to those of which practical illustration may be found in the City of Glasgow Fever Hospital at Belvidere, the students being recommended in the strongest manner to avail themselves of Dr. Allan's voluntary classes for clinical instruction in this subject, as sanctioned by the Local Authority. The general doctrine of Pyrexia, the use of the thermometer as a medical instrument, the physiological and pathological relations of temperature to functional disturbance and tissue-change, will be systematically discussed in this part of the course. The connection of particular Fevers with micro-organisms, and the general doctrines thence arising, will also be indicated in so far as is possible without diverging too much from practical lines; and the prevention, as well as the treatment, of the different Fevers spoken of will be carefully considered, so as to comprise in this part of the course the principles, if not the details, of sanitary administration. In the early part of the course, at least up to Christmas, instruction will be given on the elements of Physical Diagnosis, so as to constitute a preparation for hospital and dispensary work. Diseases of the Heart will next engage attention, and after these, Diseases of the Kidney (including, so far as expedient, Urinary Diseases generally); and also incidental reference to abdominal tumours, as of Liver, Stomach, Spleen, Pancreas, etc., from the point of view of diagnosis. A selection will be made among Diseases of the Abdomen for the remainder of the course, so far as time permits. Professor Gairdner proposes to lecture during the summer, 1891, on Diseases of the Nervous System, which will also form a part of the tutorial work of next winter. Dr. Gowers's work in two vols., or the part of Dr. Hilton Fagge's posthumous work (see below) relating to this department, may be read by the more advanced students, along with Bristowe's text-book, which, however, is of itself amply sufficient for juniors, in relation to the Nervous System. The course will be illustrated by drawings, wax casts, models, and preparations of morbid Anatomy; and the Lecturer will also refer to the cases under his care in the Infirmary, and, in general, will lead the student to look to his Hospital practice as the evidence in detail of what is stated in the class-room. Professor Gairdner conducts at the Western Infirmary part of the Clinical Instruction given to the medical students connected with the University.

Text-Books.—Those most generally used in the Class are:—Bristowe's *Theory and Practice of Medicine*, last edition; Finlayson's *Clinical Manual for diagnosis and hospital work*; and Tanner's *Index of Diseases* (for reference to remedies and formulæ). The following well-known systematic treatises, however, are also recommended, and may be used by those who prefer them, viz.:—The recently published *Principles and Practice of Medicine*, by the late Dr. Fagge (London, 1886); Tanner (the larger work including the smaller index), Frederick Roberts, Niemeyer (American translation), Austin Flint, *Principles and Practice of Medicine*, 1886, 6th edition. Aitken's *Science and Practice of Medicine* will be found specially useful by those who intend to enter the Army or Navy Medical Service. Graham Brown's, also Fenwick's

Treatises on Medical Diagnosis, and Gee on *Auscultation and Percussion*, are smaller and more special works, which will be found very serviceable. A still more recent, and excellent, Text-book on Physical Diagnosis is that of Drs. Gibson and Russell, of Edinburgh. The Professor's *Clinical Medicine* (1862) is out of print, but will be found in the Reading-Room, and may be used for occasional reference.

ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and College jointly. A separate Professorship of Botany was established in 1818, a distinct lectureship on that branch having existed for a considerable time previously.

Professors.

1720. Thomas Brisbane, M.D.
1742. Robert Hamilton, M.D.
1756. Joseph Black, M.D.
1757. Thos. Hamilton, M.D.
1781. William Hamilton, M.D.
1790. James Jeffray, M.D.
1848. Allen Thomson, M.D., LL.D., F.R.S.
1877. John Cleland, M.D., LL.D., D.Sc., F.R.S.

Demonstrators:

John Yule MacKay, M.D.
Andrew M. Ramsay, M.B., C.M.
Robert Bell, M.B., C.M.

In the Winter Session, Anatomical Instruction is conducted in the following courses, viz.:—

1. Elementary Descriptive Lectures.—This Class meets on five days weekly, from 2 to 3 o'clock. The lectures comprehend a full systematic description of the Bones, Joints, Muscles, and Muscular Organs, and a general view of the Nervous System, and Viscera.

2. Advanced Descriptive Lectures and Demonstrations.—This Class meets on six days weekly, from 11 to 12 o'clock, viz., on five days for lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain, and Organs of Sense.

3. Practical Anatomy, or Dissections made by the students, under the superintendence of the Professor and Demonstrators. The rooms are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays when they close at mid-day.

Text-Books—Quain's, Gray's, Leidy's or Macalister's *Anatomy;* Ellis's *Demonstrations;* Cleland's *Directory for Dissection.*

In the Summer Session, the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily. Demonstrations on Surgical and Topographical Anatomy, as well as lectures on Embryology and other of the higher branches of Anatomy, are delivered regularly, and are free to members of the Practical Class. Elementary Instruction for beginners is also provided.

NATURAL HISTORY.

This Professorship was founded by George III., in 1807. The Professor is appointed by the Crown. In 1876 Mrs. Honyman Gillespie of Torbanehill, endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

Professors.

1807. Lockhart Muirhead, LL.D.
1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.
1866. John Young, M.D.

Honyman Gillespie Lecturer.

1876. John Young, M.D.

The arrangements for the ensuing year are as follows:—

1. A course of Lectures on Zoology, daily at 1 P.M., beginning in October.

2. A course of Lectures on Geology, daily at 1 P.M., beginning in January.

3. A course of Lectures on Zoology at 12 noon, beginning in May.

4. Lectures on Embryology during the winter and summer Sessions by Robert Kennedy, M.A., B.Sc., George A. Clark Scholar.

5. Twenty Demonstrations in the winter session and twenty Demonstrations in the summer session by Benjamin G. Cormack, B.Sc., William Baxter Demonstrator in Geology. (See page 95.)

Practical Instruction in Zoology will be given in the Zoological Laboratory during the winter and summer sessions by the Professor, with the assistance of Mr. James Rankin. A copy of the Laboratory regulations may be obtained from the Laboratory attendant.

The Professional Examinations in October, 1891, will have special reference to the *Protozoa*, *Insecta*, and *Aves ;* those in April, 1892, to the *Reptilia*, *Brachiopoda* and *Echinodermata.*

SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

Professors.

1815. John Burns, M.D.
1850. James A. Lawrie, M.D. | 1860. Joseph Lister, M.B., F.R.S.
1869. SIR GEORGE H. B. MACLEOD, M.D., F.R.S.E.

The Professor delivers during winter a course of lectures on the Principles and Practice of Surgery, and in summer conducts a course of Operative Surgery. He also conducts at the Western Infirmary part of the Clinical Instruction given to the Medical Students connected with the University.

GENERAL OUTLINE OF COURSE.

I. History of Surgery.
II. Maladies common to all the Tissues and Organs.
    (*a*) Inflammation and its consequences.
    (*b*) External Injury.
    (*c*) Virulent Affections.
    (*d*) Tumours.
III. Maladies of Special Tissues and Organs.
IV. " of Regions.
V. Principles of Surgical Diagnosis.
VI. Operations.

MIDWIFERY.

This Professorship was founded by George III. in 1815. The Professor is appointed by the Crown.

Professors.

1815. James Towers, M.D.
1820. John Towers, C.M.
1833. Robert Lee, M.D.
1834. William Cummin, M.D.
1840. John M. Pagan, M.D.
1868. William Leishman, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was *ex officio* Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

Lecturers.

1747. William Cullen, M.D.
1756. Joseph Black, M.D.
1766. John Robison, LL.D.
1769. William Irvine, M.D.
1787. Thomas C. Hope, M.D.
1791. Robert Cleghorn, M.D.

Professors.

1818. Thomas Thomson, M.D.
1852. Thomas Anderson, M.D.
1874. John Ferguson, M.A., LL.D., F.S.A.

Assistants.

Geo. G. Henderson, M.A.,D.Sc. | James Stanley Muir, B.Sc.

Lectures on Systematic Chemistry.

The Lectures of this course are delivered daily at 10 A.M. during the Winter Session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and the latter part of the Course is devoted to the subject of Organic Chemistry.

Tutorial Classes.—In addition to attendance at the lectures. the students are required to attend the Tutorial Classes, each of which meets twice a week, either at 9 A.M. or 3 P.M. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.[1]

Analytical Chemistry.

The Laboratory is open daily during the Winter and Summer Session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently. He is supplied with a table, gas, re-agents, etc., and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students engage in original investigation.

Fee for the Winter Session, £10 10s.; for the Summer Session, £5 5s.

Practical Chemistry.

This Course, which is intended for Medical Students, is given during the Summer Session. It treats of the methods of testing the different bases and acids, the detection of poisons, and the preparation of the more important Pharmaceutical compounds.

Attendance on the course of Chemistry being required for the Certificate in Engineering Science, and for the degree of B.Sc., the attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an interval for study between the conclusion of the Chemical Classes and the Degree Examination.

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[1] Arrangements are making by which short courses of from 12 to 20 or 25 Lectures on some special or advanced subject will be delivered during the Session. The subjects of these courses will be announced from time to time.

It is proposed to give Lectures next Session on some of the Subjects connected with the B.Sc. Degree, and also a course of Lectures on the earlier period of Modern Chemical History.

The Senate have resolved that "Hereafter no candidate for a Certificate in Engineering Science shall be admitted to examination in the Department of Chemistry who has not attained to the value of 50 per cent. for his written exercises in the class."

For the "Malcolm Kerr," the "Metcalfe," the "George A. Clark" Bursaries, the "John Clark (Mile-end)" Scholarships, the "Breadalbane" Scholarships, the "Donaldson" Scholarships, and the "Mackay Smith" Scholarship, in connection with Chemistry, see under "Bursaries" and "Scholarships."

BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 115, as to Botanic Garden.)

Professors.

1818. Robert Graham, M.D.
1821. Sir W. J. Hooker, LL.D.
1841. John H. Balfour, M.D.
1845. G. A. Walker-Arnott, LL.D.
1868. Alexander Dickson, M.D.
1879. I. B. Balfour, M.D., D.Sc.
1885. Frederick O. Bower, D.Sc.

Lectures are given at the College every Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8 A.M., during the months of May, June, and July. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the fields, or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the College during June and July.

The Botanical Laboratory at the College is open daily from 9 A.M. to 4 P.M. from the beginning of May to the end of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, is held in the Laboratory in the months of January, February, and March. A course of advanced Lectures is also given during those months.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class receive a ticket of admission to the Botanic Garden, and may obtain, by applying to the Professor, specimens of plants for private study.

Fees for the Class:—First Course, £3 3s. Second Course, £2 2s. Third Course, £1 1s. For the Botanical Laboratory (either the elementary or the advanced course), £2 2s.

For particulars as to the "Dobbie-Smith" Gold Medal, see under "Prizes."

MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

Lecturers.

1766. William Irvine, M.D.
1787. Thomas C. Hope, M.D.
1788. Richard Cleghorn, M.D.
1791. Richard Millar, M.D.

Professors.

1831. Richard Millar, M.D.
1834. John Couper, M.D.
1855. John A. Easton, M.D.
1865. John B. Cowan, M.D.
1880. MATTHEW CHARTERIS, M.D.

The instructions in Materia Medica comprise a Winter Course devoted to the action of remedies and the treatment of disease by medicines, climate, and diet. In the summer Course, which it is advisable to take before the Winter one, the instructions are on the official preparations of Materia Medica and Practical Pharmacy. At the third professional examination, written and oral questions on both subjects will be submitted to candidates.

Text-books.—For Materia Medica and Pharmacy, Mitchell Bruce's *Materia Medica*, etc., Whitla's *Elements of Pharmacy*; for Therapeutics, Charteris's *Practice of Medicine* (6th edition.)

INSTITUTES OF MEDICINE, OR PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839.

Professors.

1839. Andrew Buchanan, M.D.
1876. John Gray M'Kendrick, M.D., LL.D., F.R.S., F.R.S.E., F.R.C.P.E.

Muirhead Demonstrator.

William Snodgrass, M.A., M.B., C.M.

SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the Winter Session. They are devoted to an exposition of the main principles and facts of the Physiology of man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Demonstrations.—A series of demonstrations is given by the Muirhead Demonstrator on the applications of Physics to Physiology, and more especially the electrical phenomena of muscle and nerve, and the applications of electricity in physiology and medicine.

Written and oral examinations are held during the session.

PRACTICAL PHYSIOLOGY.

During the *Summer Session*, practical instruction is given in the Laboratory, by the Professor, Muirhead Demonstrator, and assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily (except Saturday). This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. (3) The modes of observing and recording physiological phenomena. Students will be instructed in the use of physiological apparatus, and will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures. Fee, £3 3s.

Candidates for the degree of B.Sc. will have special facilities for Laboratory work *during the Winter Session.* They are requested to communicate with Dr. M'Kendrick on or before 3rd November.

The Laboratory.

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of lectures on Physiology.

Text-Books.

For the Systematic and Practical Classes—*Text-Book of Physiology*, 2 vols., by Dr. M'Kendrick; also *The Elements of Physiological Physics,* by J. M'Gregor-Robertson, M.B., C.M.

As to the Muirhead Demonstratorship of Physiology see p. 94.

MEDICAL JURISPRUDENCE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D.	1841. Harry Rainy, M.D.

1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.

The lectures on Forensic Medicine are intended to elucidate the application of Medical Science to judicial proceedings, whether civil or criminal.

The first part of the course is occupied with Medical Evidence as bearing on personal injuries, including Poisoning. This is followed by questions connected with the Sexual Functions, and questions relating to Bodily and Mental Soundness.

In addition to oral examinations, subjects are prescribed for written exercises ; and in the department of Toxicology facilities are afforded for students desirous of becoming practically acquainted with the tests for poisonous substances, and the processes for separating these from organic mixtures.

N.B.—*The Lectures on Forensic Medicine are delivered during the Summer Session daily at* 11 *a.m.* (*See under Faculty of Law.*)

CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. GEORGE BUCHANAN, M.A., M.D., LL.D.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment. There is a Summer as well as a Winter Course.

CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. THOMAS M'CALL ANDERSON, M.D.

The Professor teaches Clinical Medicine by "Lectures and other instruction" on the cases of patients requiring Medical treatment. There is a Summer as well as a Winter Course.

IV.—LECTURESHIPS, DEMONSTRATORSHIPS, ETC.

THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

Demonstrator.

1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, "the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated Students and others may attend the Lectures.

1888. Professor MAX MÜLLER.

PUBLIC LAW, see p. 79.
CONSTITUTIONAL LAW AND HISTORY, see p. 80.

DISEASES OF THE EYE.

This Lectureship was instituted by the University in 1828. Great advantages are offered to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

Lecturers.

1828. William M'Kenzie, M.D. | 1868. George Rainy, M.D.
1869. THOMAS REID, M.D.

Waltonian Medical Lectureship.

Founded in 1788 by Rev. Dr. William Walton, of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,650. It is at present held by DR. THOMAS REID, who is also lecturer on Diseases of the Eye.

THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, Dr. Henry Muirhead, of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400 to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows :—

1. That the title of the appointment be "The Muirhead Demonstrator of Physiology."

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

Present Demonstrator.

WILLIAM SNODGRASS, M.A., M.B., C.M.

INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject by the Lecturer being the Superintendent of the Royal Lunatic Asylum, Gartnavel.

Lecturer.

1880. DAVID YELLOWLEES, M.D., LL.D.

A Course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined course, £2 2s.

For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."

THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889 :—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with honours, or, in the event of several candidates obtaining honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest ; but in the event of no candidate attaining to honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To deliver two Courses of Lectures—twenty in the winter, twenty in the summer session—(*a*) on Mineralogy and Petralogy, or (*b*) on Palæontology, or (*c*) on Physical Geography. These Lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petralogy, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These Courses of Lectures may be attended (*a*) by matriculated students of Geology, free; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; the next in ordinary course will be made in April, 1892, on the results of the examinations for B.Sc., which shall be held between May, 1889, and April, 1892.

Demonstrator—BENJAMIN G. CORMACK, B.SC.

GERMAN LITERATURE.

In 1887 the Senate instituted a Lectureship on German Literature. Dr. Alexander Tille has been appointed Lecturer for session 1891-92. He will deliver three Courses of Lectures, the first and second course in English, and the third in German.

The first course will comprehend forty lectures, and will treat of New-High-German (Modern German) Grammar on a historical and comparative basis. The class will meet on Tuesdays and Fridays at 3 P.M. Fee, £2.

The second course extending to twenty lectures will be devoted to a translation, explanation and discussion of Goethe's *Faust*. It will be delivered on Wednesdays at 4 P.M. Fee, £1. Text book: Goethe's *Faust* (in German).

The third course will be divided into two sections distinct from one another and consisting of 10 lectures each. It will be held on Thursdays at 8 P.M. Fee for the whole course, £1.

Of the first section the subject will be Schiller's Life and Works. Fee, 10s.

The second section will be upon the History of the Faust-legend and Faust-poetry from the 16th century till the present time. Fee, 10s.

All three courses will begin in the third week of November, the second section of the third course in the first week of February. Non-matriculated students may attend any or all of the courses on payment of a University Fee of Five Shillings in addition to the authorized class fee.

V.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Library is under the management of a Committee appointed annually from the members of Senate. The Librarian is elected by the Senate.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, ESQ., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The Library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This Collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the Subscribers was inserted in the Calendar for 1879-80.

The WALKER-ARNOTT Botanical Library of 970 volumes.

The Musical Library of the late THOMAS L. STILLIE, ESQ., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The works on Mining belonging to the late ALEX. MACDONALD, ESQ., M.P.

Works on Engineering from the libraries of the late Professors LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late Professor WEIR; a large collection of medical works, theses, and pamphlets, from the late Professor ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, ESQ.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, Merchant—presented by Dr. THOMAS REID; and numerous works of reference for the Reading Room from the late Dr. A. B. M'GRIGOR.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Roberton, LL.D. (2); and Alex. Whitelaw, Esq., M.P. (2).

The following are the principal regulations relative to the use of the Library by the various classes of readers :—

Each Member of the Senatus Academicus is entitled to have in his possession at one time twenty-five volumes, but not more.

Retired Principals and Professors are entitled to have in their possession at one time ten volumes, but not more.

Any Assistant to a Professor, or Examiner for Degrees, to whom the Senatus Academicus shall think it expedient to grant the privileges of the Library, is entitled to have in his possession at one time ten volumes, but not more.

Each Member of the General Council is entitled, in each year in which he shall have paid a subscription to the Library of Ten Shillings and Sixpence, to have in his possession at one time four volumes, but not more. The annual subscription may be compounded for by a single payment of Five Guineas. In the case of a Member of the General Council, the year commences at 15th October.

Every person in each of the foregoing classes is entitled to retain each book for one month from the date of borrowing during the Winter Session, and for two months from the date of borrowing during Summer, and is further, after the expiration of such period, entitled to retain each book until the annual period of inspection, unless notice shall be received from the Librarian requiring the return of such book.

Every Matriculated Student enrolled in a Class is entitled, on lodging with the Librarian a deposit of One Pound, to have in his possession three volumes (in Summer, four volumes) at one time, and to retain any book for two weeks (in Summer, four weeks) from the date of borrowing; and further, to re-borrow any book for successive periods of two weeks (in Summer, four weeks), unless application for it shall, in the meantime, have been made by another person entitled to the use of the Library.

No reader is entitled to borrow books in more than one capacity, *e.g.*, as a Student and as a Member of the General Council.

If any book, by whomsoever borrowed, be not returned within three days after notice shall be sent by the Librarian requiring the return of such book, a penalty of One Shilling a volume is incurred, and a further penalty of Sixpence a volume for each day so long as the book is not returned, until the full amount of the fine shall exceed the sum for which the book can be replaced in the Library.

The Librarian is entitled to have in his possession at one time ten volumes, but not more; and any Assistant-Librarian, to whom the Senatus Academicus shall think it expedient to grant the privilege of the Library, shall be entitled to have in his possession at one time four volumes, but not more; provided always that all books borrowed by the Librarian or by any such Assistant-Librarian as aforesaid shall be duly and regularly entered in the ordinary Record of the Library as being borrowed, in the same manner as books borrowed by other persons.

The Senatus Academicus may grant the use of the Library to such extent, and on such conditions as they shall think expedient, to persons for purposes of literary research, and that whether such persons shall be members of the University or not; provided always that no such privilege shall in any case be granted except by Minute of the Senatus specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which Minute shall be forthwith transmitted to the University Court; provided also that all such persons shall pay a Subscription to the Library of Ten Shillings and Sixpence for the current year.

All grants of the use of the Library made by the Senatus Academicus, in pursuance of the preceding section, shall terminate at the annual period of inspection of the Library, but shall be renewable under like conditions, if again applied for on the expiration of that period.

Books belonging to the Library must not be privately transferred from one reader to another; and must not be lent to Graduates or Students who are not readers.

The Librarian is strictly forbidden to send books by a public conveyance, or do more than deliver books over the counter to a person properly authorized to receive them; and he is empowered, if he think fit, to decline to give out books to any one other than the reader applying in person.

The following classes of books are not given out except on an order signed by three members of Committee:—Manuscripts, Specimens of early typography, Works containing valuable engravings, Dictionaries and other works of reference (unless there is a duplicate in the Library), Maps of a larger size than 20 inches in height and breadth, loose Maps, unbound Music, Works with loose plates or loose letterpress, Rare Books, or Books in any way difficult to replace, Pamphlets, stitched Parts of large works, or Books not sufficiently protected by the binding.

A general inspection of the Library, and of the Record of the borrowing and returning of the books, takes place annually in April, beginning with the 15th and ending with the 22nd.

During the period of the annual inspection, the Library is closed, and all works whatsoever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty of not less than One Shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly, until such volume is returned, or until a copy of the work of the same edition, and of equal value, shall at the expense of the borrower be placed in the Library in its stead.

So long as any person shall remain in possession of a book which he is not entitled to retain, or shall allow any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatsoever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

Each person returning a book to the Library must see that the book is marked as returned opposite the corresponding entry in the Receipt Book. For every borrower is liable to replace any volume entered in the Receipt Book in his name and not so marked as returned.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall. Each person must enter his name and address, and the title of the work or works which he desires to consult, in a book kept for that purpose.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of Senate, shall otherwise be admitted to the interior of the Library without the special permission of the Curator or Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the Winter Session, from 11 A.M. till 2.30 P.M., except the Christmas and other Holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the Summer it is open on Mondays, Wednesdays, and Fridays, from 11.30 A.M. till 2 P.M.

CATALOGUES.

An Author and Subject Index containing the chief books likely to be interesting or useful to Students, and forming a fairly complete guide to the accessions in English of the last twenty years, may be purchased by readers in the Library at the price of One Shilling.

Students and Graduates who are engaged in special research will, on application to the Librarian, have access to the Classified Catalogues, which include also the older literature and works in foreign languages. The materials for these Catalogues—numbering already twenty-nine volumes—have been arranged by Professor Dickson, Curator of the Library, and the expenses incurred by him in connection with their preparation have been defrayed by the late Dr. A. B. M'Grigor.

READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the Winter Session from 9 A.M. till 3 P.M., and during the Summer Session from 11 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room:—

Every Matriculated Student, who shall at the beginning of the Session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall personally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the room (and vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked ; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

N.B.—The south corridors have been enclosed and provided with benches for the use of *other* students in the intervals of their classes.

Donations to the University Library.

List of Donations from 1st March, 1890, to 28th February, 1891 :—

Rev. Alexander Robertson.—Salignac, Arithmetica et algebra. 1593.

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Technische Hochschule zu Aachen.—Hermann, Die deutsche allgemeine Ausstellung für Unfallverhütung. 1890.—Programme für das Jahr 1890-91.

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John Marshall, F.R.S., LL.D.—The Morton lecture on cancer. 1890.

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Victoria University, Manchester.—Calendar for 1890.

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Land Nationalisation Society.—Ogilvy, Land nationalisation. 1890.

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James Finlayson, M.D.—Plea for a reform of the university teaching in Scotland, 1890.—The Medical Chronicle. Vols. 1-12. 1884-90.

William Sharp, M.D.—Therapeutics founded upon organopathy and antipraxy. 1886.—Therapeutics ought to become a science.—Experiments with drugs as a question of science. 1890.—And three other pamphlets.

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Norwegian North Atlantic Expedition.—Danielssen, Actinida.—Sars, Pycnogonidea.

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Rev. Walter E. Smith, M.A.—A Study of the Great "She" Bible (1613 or 1611).

Prof. Patrick Geddes.—Experimental studies in higher education. No. 1.

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T. E. Holland, D.C.L.—University of Oxford in the twelfth century.

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London Hospital and Medical College.—Prospectus for session 1890-91.

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James Thin, Esq., Edinburgh.—Book of Job and Song of Solomon translated by Talmid. 1890.

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DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

HUNTERIAN MUSEUM.

This Museum, one of the most interesting possessions of the Senate, was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archæological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 25. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried. Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 P.M. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

Donations to Museum 1890-91.

The following donors have contributed to the Museum during the past year :—

ZOOLOGICAL SPECIMENS—James Blythe, Esq., late of Fiji; Sir G. H. B. Macleod, University, Glasgow; William Brown, Esq., per Mrs. Cree, Glasgow: Dr. James E. Hunter, Duncairn, Helensburgh; Mr. David

Wallace, Student; Mr. George Moreland, Medical Student; Mr. John Mackay, Partick; Captain Kerr, Campbeltown; Mr. John Young, Hunterian Museum.

MINERAL AND FOSSIL SPECIMENS—D. C. Glen, Esq., Glasgow; Rev. James E. Somerville, Glasgow; Mr. John Howat, Glasgow; Mr. Charles H. Cairns, Pollokshields, Glasgow; Mr. Thomas Naismith, Glasgow; The Maharana of Oodeypore, Rajputana; Dr. Thomas Young, Manchester.

ETHNOLOGICAL SPECIMENS—James Blythe, Esq., late of Fiji.

The most important addition during recent years has been the collection of the late F. A. Eck, Esq., formerly of Hollybush. During a long residence in South America, and afterwards while resident in Britain, Mr. Eck formed a splendid collection of minerals, numbering in all over 3,000 specimens. The minerals of Peru, Chili, Guatemala, New Grenada, Mexico, and California, are richly illustrated, while the European series of over 1,200 specimens is also representative. There are besides a fine series of polished precious stones, and also specimens of the old Mexican and Peruvian Pottery, and of modern carved work. This splendid gift—along with the handsome cabinets in which the specimens are contained—the largest since Miss Brown, of Lanfine, presented in 1875 one half of her late father's mineral collection, is due to the generosity of Mr. Eck's family, who have enjoined that the collection be kept apart and used, so far as possible, to aid the teaching of mineralogy. In February 1888, the Council of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological collection of the Andersonian University, later known as Anderson's College, and now merged in the Technical College, the Council requiring the space for illustrations of the lectures given under their direction. The collections, which are of very great value and extent, were largely due to the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian Museum is also under great obligations. The collection of birds formed by the late John Alexander, Esq., Dowanhill, was presented by Messrs. W. J. Chrystal and J. Gibson Fleming.

BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the College. The removal of the College to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium Room in the Garden, the Professor has continued, though at great inconvenience, to deliver his elementary Lectures and to have his Laboratory at the College. The advanced Lectures delivered during the winter are, however, given in the old Lecture-Room, within the Garden. It is desirable that the accommodation in the Botanic Garden be increased so that the elementary lectures as well as the advanced lectures and the practical demonstrations may be given in the Garden, that the Botanical Laboratory be established there also, and that the Herbarium and Museum be lodged alongside of the Lecture-Room.

VI.—GRADUATION IN THE SEVERAL FACULTIES.

EXAMINERS FOR DEGREES.

Degree in Arts.

The Examiners for the Degree of Master of Arts, without Honours, are the Professors whose classes are embraced in the prescribed course of study, and in addition, Three Persons, not being Professors or Assistant-Professors in any Scottish University, appointed by the University Court, and in the appointment of whom regard is had to their eminence in Classical Literature, Mental Philosophy, and Mathematical Science.

The Examiners appointed by the University Court are appointed for a term of three years, but the appointment of any Examiner, during the currency of his term of office, to a Professorship or Assistant-Professorship in any Scottish University, is held to vacate his office of Examiner ; and in the event of a vacancy in the office of Examiner occurring otherwise than by the expiration of his term of office, the Examiner appointed by the University Court, in his room, is appointed for the remainder of such term only.

No person who has been appointed to the office of Examiner for the period of three years, is eligible for re-appointment to the office of Examiner in the same University, until he has ceased to hold the office of Examiner in such University for not less than one year.

The Examiners for Graduation with Honours are the same Professors and additional Examiners as for Graduation without Honours ; in the examination of candidates for Honours in the Department of Natural Science, there are added the Professors of Natural History, Chemistry, and Botany ; and the University Court may, if they think fit, appoint an additional Examiner, skilled in Natural Science, not being a Professor or Assistant-Professor in any Scottish University.

No person is eligible for appointment to the office of Examiner who is not a member of the General Council of one or other of the *Scottish* Universities.

Degrees in Science.

The Examiners for Degrees in Science in those subjects not included in the curriculum for M.A., are the Professors in the several departments.

Degrees in Medicine.

The Medical Examiners for Graduation in Medicine are the Professors in the Faculty of Medicine (including the Professor of Natural History), and, in addition, not fewer than six persons, appointed by the University Court, who are selected from among the

Fellows of the three following bodies, namely: the Royal College of Physicians of Edinburgh, the Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow, or persons otherwise fully qualified in the judgment of the University Court.

The examinations in extra-professional education are conducted under the superintendence of the Examiners in Arts (who may be Professors), together with some of the Medical Examiners.

Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors in the Faculty of Law and three additional Examiners appointed by the University Court, who are Professors in the Faculty of Law in a Scottish University, or who have obtained the Degree of Bachelor of Laws in accordance with the provisions of Ordinance of the Universities Commissioners, No. 75.

The Examiners for the Degree of Bachelor of Law are the Professors in the Faculty of Law, together with two additional Examiners appointed by the University Court from among Graduates of Law of any of the Universities of Scotland. Each of such additional Examiners holds office for the term of three years.

Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Members of the Divinity Faculty.

REGULATIONS FOR GRANTING DEGREES.

1.—GRADUATION IN ARTS.

There are two examinations for students about to enter the Faculty of Arts, viz., the Entrance Examination and the Preliminary Examination. Students under the age of 17 years are required to pass the Entrance Examination, and thereafter may complete their course in four sessions. The Preliminary Examination must be passed by those students, whether under or over the age of 17 years, who wish to complete their course in three sessions.

Entrance Examination in the Faculty of Arts.

The University Court, on 4th April, 1882, resolved to institute an Entrance Examination in the Faculty of Arts, and the necessary steps having been taken, the first Entrance Examination was held in November, 1883.

The Entrance Examination for the session 1891-92 will be held upon *Tuesday, the 3rd, and Wednesday, the 4th of November*, 1891, beginning at 10 A.M. on each day. All students entering the University for the first time in the session 1891-92, and who have not completed the age of 17 on or before the 1st November, 1891, will be required to pass the Examination, unless they have previously presented themselves for the Preliminary Examination in Arts, and passed in at least two of the subjects of that Examination. Candidates who fail in the Preliminary Examination, but who, in the opinion of the Examiners, have come up to the standard required for the Entrance Examination in any subject, will be exempted from examination in that subject. All other students below the age of 17 who do not present themselves for the Entrance Examination, or who fail to pass it, will be permitted to attend any of the classes in the curriculum of Arts for purposes of instruction, but such attendance will not qualify for graduation, nor entitle a student to receive a Public Certificate of attendance.

Candidates desiring to present themselves for the Entrance Examination are requested to send in their names to the Clerk of Senate on or before *Saturday, October 24th,* 1891, stating in what subjects they desire to be examined.

The Examination will be conducted by two special Examiners, acting in conjunction with the Professors in the Faculty of Arts. The Examiners for 1891 will be Mr. John G. Kerr, M.A., Allan Glen's School, Glasgow, and Mr. James Wood, M.A., Glasgow Academy.

REGULATIONS FOR THE ENTRANCE EXAMINATION FOR THE ARTS CLASSES IN THE UNIVERSITY OF GLASGOW.

1. The above Examination must be passed by all students who have not attained the age of 17, and who are for the first time entering any of the Arts Classes with a view to a Public Certificate.

2. Students who have passed the Preliminary Examination *in at least two subjects* are not required to pass the Entrance Examination. No student below the age of 17 can pass the Preliminary Examination in one subject only, unless he also pass the Entrance Examination.

3. In the event of a student below the age of 17 failing to pass the Entrance Examination, but nevertheless electing to attend and attending any of the Arts Classes for purposes of instruction only (*i.e.*, as a private student in accordance with the regulations of the Senate), he is permitted to present himself for the Preliminary Examination at the commencement of the next (or any subsequent) Session, which shall be considered for the purposes of Ordinance No. 14, sec. I., as "the time of his entrance to the University."

4. All candidates are required to pass in English ; and, in addition, in any two of the following five subjects, viz. :—1, Latin ; 2, Greek ; 3, Arithmetic and Mathematics ; 4, French or German ; 5,

A period of History. Two hours will be given for the Examination in each subject.

5. The Examination in the various subjects will be as follows :—

ENGLISH—On TUESDAY, 3rd November, at 1 P.M.

(*a*) Passage to be written from Dictation.
(*b*) Questions on Grammar.
(*c*) A subject will be proposed for a short English Composition.

LATIN—On WEDNESDAY, 4th November, at 10 A.M.

(*a*) Latin Grammar, including Syntax.
(*b*) An easy passage from a Latin author to be translated into English, with parsing of words.
(*c*) Sentences to translate from English into Latin.

GREEK—On Wednesday, 4th November, at 3.30 P.M.

(*a*) Xenophon's *Anabasis*, Book II. Translation ; with questions on (1) Parsing ; (2) Syntax ; (3) History and Geography.

MATHEMATICS—On Tuesday, 3rd November, at 10 A.M.

(*a*) Arithmetic.
(*b*) Euclid, Books I. and II.
(*c*) Algebra, including Equations with One unknown quantity.

FRENCH—On Wednesday, 4th November, at 1 P.M.

(*a*) Passage for Translation into English from Voltaire's *Charles XII.*, Books I., II., and III.
(*b*) Easy passage from some author selected by the Examiner.
(*c*) Questions on Grammar, with an easy passage of English to be translated into French.

GERMAN—On Wednesday, 4th November, at 1 P.M.

(*a*) Passage to translate from Schiller's *Marie Stuart*, Acts I., II., and III.
(*b*) Easy passage for translation from some author selected by the Examiner.
(*c*) Questions on Grammar, with an easy passage to be translated from English into German.

HISTORY—On Tuesday, 3rd November, at 3.30 P.M.

Candidates to have a choice between Ancient and Modern History. Those who select Ancient History will be expected to have a good general knowledge of the following periods :—
(*a*) *Greek History*, from B.C. 431 to B.C. 323 ; and
(*b*) *Roman History*, from B.C. 133 to B.C. 31.

Those Candidates who select Modern History will be expected to have a good general knowledge of the following periods :—
(*c*) *Scottish History*, from the accession of James I. of Scotland down to the Union of the Crowns.
(*d*) *English History*, from the accession of James I. of England to the accession of William III.

6. Candidates who have gained the Senior or Junior Local Certificate of any Scottish University, or the Certificate of an equivalent examination in England or Ireland, for any three of the subjects

included in the examination (of which English must be one), will be exempted from the Entrance Examination.

7. Although in several of the subjects special books have been set, the main object of the examination will be to ascertain that the Candidate has a sound general knowledge of the subject, and especially of its elements, rather than to test a specially-acquired knowledge of the books prescribed.

Preliminary Examination in Arts.

The Preliminary Examination in Arts for the session 1891-92 will be held on *Tuesday, the 27th October*, 1891, *and three following days*, beginning at 10 A.M. on each day.

The attention of students is called specially to the following points :—

1. The Preliminary Examinations are in every case voluntary.

2. No student can offer himself for a Preliminary Examination except when entering the University for the first time.[1]

3. A student who passes the Preliminary Examination both in Greek and in Latin, may complete the course of study required for the Degree of Master of Arts in three sessions.

4. A student who passes the Preliminary Examination in one or more departments is entitled to enter the Senior class or classes in the department or departments in which he passes, and may qualify himself for Graduation in Arts by attending such Senior class or classes for one session, without attending the Junior class or classes in the department or departments in which he passes.

A Senior Certificate granted by the Local Examination Board of any Scottish University, or the Higher Grade of Leaving Certificate, may be accepted *pro tanto* as qualifying for a course of three sessions.

The subjects of the Preliminary Examination in the different departments are as follows :—

Latin and Greek.

Passages to translate from Latin and Greek authors.

Translation from English into Latin.

Questions in Grammar and History, with translation of English sentences.

Mathematics.

First Six Books of Euclid.

Plane Trigonometry.

Algebra, including Quadratic Equations.

⁂ The Examination Questions for 1890 are given in the *Calendar*.

The Preliminary Examination in Latin, Greek, and Mathematics is combined with the Examination for the Competition Bursaries.

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[1] See 3, page 118.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) not later than October 20th.

Degree of Master of Arts.

I. The Course of Study necessary for the Degree of Master of Arts extends over four Winter Sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, and Natural Philosophy respectively, and also attendance on a course of English Literature; but any student who, at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the higher classes of Latin, Greek, and Mathematics, or any of them, is admitted to such higher class or classes, without having previously attended the first or junior class or classes in the same department or departments; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.[1]

The attention of students about to pursue the course of study for the Degree of Master of Arts is called to the following regulations, adopted by the Senate, which will apply to students commencing in Session 1875-76 (or thereafter) the course of study for the Degree :—

1. Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. shall be subsequent to the completion of the qualifying course of Mathematics.

2. Two sessions of the lowest class of Humanity, or Greek, or Mathematics, do not constitute two sessions of one of these classes, within the meaning of Ordinance No. 14.

3. A student found qualified at the Preliminary Examination to attend the Senior class of Humanity, or Greek, or Mathematics, must attend such Senior class in order to qualify for the Degree without more than one session's attendance on such class.

It is strongly recommended that students prepare themselves to attend the upper junior class of Mathematics in the first or second session of their course of study for the degree.

4. In session 1879-80, and thereafter, to qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.

II. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the higher class.

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[1] For details of this Preliminary Examination see above.

III. Any student who has completed the required attendance on the Latin and Greek Classes, may be examined on those subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, in like manner, any student who has completed the required attendance on the classes of Logic and Moral Philosophy, and course of English Literature, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, in like manner, any student who has completed the required attendance on the classes of Mathematics and Natural Philosophy, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course ; and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

IV. Students who have passed satisfactorily an examination or examinations on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the degree of Master of Arts without Honours ; but they may, before taking a Degree, offer themselves for a farther examination, with a view to Graduation with Honours ; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Arts without Honours ; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours, but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts :[1] Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health or other sufficient cause.[1]

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[1] The above change in the ordinance regulating the examination for Graduation with Honours was approved by Her Majesty in Council, June 4th, 1870. By minute of Senate, of date November 27, 1873, with reference to this change in the ordinance, a student is allowed to go in for honours in any department, whether or not he has completed his curriculum, provided that he has sufficiently attended the classes in the department in which he offers himself but no certificate of passing with Honours is given till the Degree is conferred.

V. There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz. :—

A. Classical Literature ;
B. Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy ;
C. Mathematics, including Pure Mathematics and Natural Philosophy ; and
D. Natural Science, including Botany, Geology, Zoology, and Chemistry.

VI. In each of the first three of the above-mentioned departments —viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class ; but in the department of Natural Science there is one class of Honours only ; and the names of the candidates entitled to honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

VII. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other *Scottish* University, to complete his course of study, and proceed to the degree of M.A. in this University : Provided always, that every such student shall produce, to the satisfaction of the Senatus Academicus of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the degree of Master of Arts by the Examiners of this University : Provided also, that no student shall be admitted to a Degree in this University unless he has given attendance in this University during the last two sessions of his course.

VIII. The Degree of Master of Arts is in no case conferred except on persons who have complied with the conditions hereinbefore set forth, and is in no case conferred *honoris causâ tantum.*

IX. Every student who, previous to the commencement of session 1861-62, had completed a part of his course with a view to Graduation in Arts, under regulations in force at the time, and who shall hereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Master of Arts without complying with the present regulations, so far as they relate to the course of study for that degree, provided he pass the examination or examinations required by the present regulations.

X. Each candidate for the Degree of Master of Arts is required to pay a Fee of One Guinea in respect of each of the three departments of the Examination for Graduation without Honours; each such Fee of One Guinea being payable at the time at which the candidate comes forward to be examined in that department in respect of which it is payable; and no further Fee than the sum of Three Guineas is payable by any candidate in respect of examination for the said degree, whether with or without Honours.

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[1] By minute of date 28th November, 1872, the Senate resolved that the power ferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control ; attendance at another University not to be considered such."

XI. The Examinations for the Degree of Master of Arts are held in April and November (in 1891-92, commencing October 31st and April 9th); and the graduation takes place in the end of April, and in November. Applications for examination must be lodged with the Assistant Clerk (Matriculation Office), on 1*st October*, 1891, and 10*th March*, 1892, respectively.[1] The subjects and the dates of examination are set forth in the accompanying tables.

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions prescribed in April, 1891, in the several Departments and Subjects will be found towards the end of the Calendar.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LATIN	*For November*, 1891, *and April*, 1892. VIRGIL, *Æneid*, Book XI. HORACE, *Odes*, Books III, IV. HORACE, *Satires*, Book II. TACITUS, *Germania*. Any one of the following: (*a*) CICERO, any oration or orations of not less than 40 chapters; (*b*) CICERO's *Epistles*, any 40 consecutive pages (Prichard & Bernard's Selection); (*c*) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY, from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI, VII). Unseen translation. Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the Books read is essential. *For November*, 1892, *and April*, 1893. VIRGIL, *Æneid*, Book XII. HORACE, *Odes*, Books II, III. HORACE, *Epistles*, Book I. TACITUS, *Annals*, Book I. Any one of the following: (*a*) CICERO, any oration (or orations) of not less than 40 chapters; (*b*) CICERO's *Epistles*, any 40 consecutive pages (Prichard and Bernard's Edition); (*c*) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI and VII). Unseen translation. Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the Books read is essential.	*For November*, 1891[1], *and afterwards till further notice.* VERSE. { VIRGIL, Æneid VII.—XII. HORACE, the Odes and Satires. And any two (or more) of the following combinations: (*a*) LUCRETIUS, Books I, II, with a play of Plautus. (*b*) JUVENAL (the whole excepting Sat. II, VI, and IX). (*c*) PERSIUS, with Sellar's Selections from Martial, Books I-IV. (*d*) CATULLUS (Strong's Selection) and Propertius (Ramsay's Selection). PROSE. { CICERO, the *Philippic Orations*, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's *Epistles* (Muirhead's or Prichard and Bernard's Selections) of at least equal length. LIVY, I-III, or XXI-XXIII. TACITUS, *Annals*, Books I-IV. With Latin Composition, History, and Antiquities, &c. Passages also from Books not prescribed will be set. Candidates may profess any extra books they please.

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[1] N.B.—The Examination for Honours in Classics and for Classical Fellowships will commence upon Saturday, October 31st, at 3 p.m. (instead of on the Monday as formerly).

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GREEK	*November*, 1891, *and April*, 1892. HOMER, *Od.* IX or XII, or *Iliad*, XVI or XXII. SOPHOCLES, *Electra*, or ÆSCHYLUS, *Prometheus Desmotes*, or *Choephoroi.* HERODOTUS, Book IX, to ch. 65, or THUCYDIDES IV, 1–41. PLATO, *Protagoras:* to end of Protagoras' Speech, p. 328 c, or *Apology.* Unseen translation. Questions on Greek Grammar, Literature, History, and Antiquities. The questions on History will refer to Oman's *History of Greece* (478-404 B.C.). *November*, 1892, *and April*, 1893. HOMER, *Od.* IX, or *Iliad*, XVI or XXII. AESCHYLUS, *Prometheus Desmotes* or *Choephoroi*, or ARISTOPHANES, *Eirene.* THUCYDIDES IV. 1–41. PLATO, *Apology.* Unseen translation. Questions as above. The questions on history will refer to Oman's *History of Greece* (478-404 B.C.).	***November*, 1891 : *and afterwards till further notice.*** VERSE. HOMER, *Odyssey*, Books I–XII. Any two of the following four groups : 1. AESCHYLUS, Two plays of the *Oresteia.* 2. SOPHOCLES, *Oedipus Tyrannus, Oedipus Coloneus.* 3. EURIPIDES, *Phoenissae, Iphigenia in Aulide.* 4. PINDAR, any two books of the *Odes.* PROSE. THUCYDIDES, Books III, IV, V, VI. Either— 1. PLATO, any two of the following Dialogues —*Phaedo, Protagoras, Gorgias, Theaetetus,* or *Apology:* Or— 2. ARISTOTLE, *Politics*, Books I, II, III, or IV, V, VI (as numbered in Bekker's text , or *Rhetoric*, Books I and III. Greek Composition. Questions in Greek Grammar, Literature, History, and Antiquities. Candidates will be required to show a thorough acquaintance with the subject matter, as well as with the text, of the Books. Candidates for Second Class Honours only may profess an amount equivalent to at least *one-half* of each of the authors, Greek or Latin, prescribed above.
LOGIC	The Professor's Lectures, and *Institutes of Logic*, except chapters V, XIII, XX, XXV (Large Print only).	In addition, (*a*) Pre-Socratic systems, The Theaetetus ; (*b*) Descartes, the Method, Meditations and Principles of Philosophy (English Translation, with Introduction, 1879); Berkeley (Fraser's Selections, 1879) ; Locke's Essay, Books II and III ; Hume, Enquiry Concerning Human Understanding ; Reid, Essays on the Intellectual Powers, II, III, VI, with Hamilton's Notes and Supplementary Dissertations to Reid. Hamilton's Discussions (Logic, Perception, Cousin and Philosophical Appendix). (*c*) Kant's Critique of the Pure Reason ; Stählin's Kant Lotze and Ritschl, pp. 1–182. The General Principles and Methods of Fichte, Schelling, Hegel, Lotze ; Höffding's Outlines of Psychology (translated by Lowndes, 1891). (*d*) Institutes of Logic (Large and Small Print); Mill's Logic, Books III. and IV. (*e*) Questions on the History of Philosophy Reference to Ueberweg.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
MORAL PHILOSOPHY	The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the Class during that session.	Candidates for Honours will be examined on the History of Ancient and Modern Philosophy, as well as on Moral and Political Philosophy. They are required to show accurate knowledge of the following books:—(1) Plato's Republic; (2) Aristotle's Ethics; (3) Spinoza's Ethics; (4) Kant's Critiques of Pure and Practical Reason; (5) Green's Prolegomena to Ethics. They are also recommended to study such works as Hegel, as translated and illustrated by Dr. Stirling and Mr. Wallace, Watson's Kant, Maine's Ancient Law, Green's Hume, Lotze's Microcosmus, Bradley's Ethical Studies, Spencer's Data of Ethics and Sociology, and Sidgwick's Methods of Ethics; but they will not be specially examined on these books.
ENGLISH LITERATURE	*April and November*, 1892. 1. For students who attended the Class during session 1891-2 the subjects specified on pp. 65, 66. 2. For students who attended the Class in any previous session:—(1) English Composition, and (for Senior Class) English Philology; (2) History of English Poetry from Thomson to death of Byron; (3) (*a*) Shakespeare's *Julius Cæsar*, ed. Beeching; (*b*) Tennyson's *In Memoriam*, especially sections 1 to 56, and 104 to the end (Senior Class); or the Coverley Papers from the *Spectator*, ed. Salmon (Junior Class). Students who attended both in session 1891-2 and in a previous session may choose either paper.	
MATHEMATICS	Euclid, First Six Books. Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers. Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.	*Second Class.*—In addition, Euclid XI, 1 to 21; Higher Algebra; Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Senior Mathematical Class. *First Class.*—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations, and Finite Differences.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
NATURAL PHILOSOPHY	Examination on the Subjects explained in the Class, including Astronomy. On the Elements of Statics and Dynamics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.	*Second Class.*—Thomson and Tait's Elementary Treatise on Natural Philosophy; Maxwell or Balfour Stewart on Heat; Donkin on Sound; Central Forces. The subject of special course on Mathematical Physics for session of attendance. Portions of Thomson's Electrical Papers to be professed. *First Class*—In addition, Portions of Thomson and Tait's Natural Philosophy (large work) to be professed; also, either Fourier's Théorie Analytique de la Chaleur, or the Mathematical theory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids. For undulatory Theory of Light, Jamin, Cours de Phys., Vol. III, Part II, and Airy recommended.
BOTANY		Morphology, Physiology, and Taxonomy.
CHEMISTRY		General Principles. Physical Chemistry. Text-Books recommended—Miller's Elements, 3 vols.; Roscoe and Schorlemmer's Treatise; Schorlemmer's Carbon Compounds; Armstrong's Organic Chemistry.
GEOLOGY		Prestwick's Geology; Green's Geology, vol. I., with Lyell's Student's Manual; Dana's Manual of Geology; Young's Physical Geography.
ZOOLOGY		Huxley's Manuals of the Invertebrata and Vertebrata. Macalister's Animal Morphology. Claus, Zoology.

N.B.—Candidates may be examined in the last four subjects by the aid of Specimens.

UNIVERSITY OF GLASGOW.

TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., FOR THE CERTIFICATE OF L.A., AND FOR THE DIPLOMA FOR TEACHERS, TO BE HELD DURING SESSION 1891-92.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	Fee.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different papers will be set.	
				Oct. and Nov., 1891.	April, 1892.
Classical	1st Oct. or 10th March	£1 1s.	Latin and Greek,	Saturday, 31st October, at 3 p.m.[1]	Saturday, 9th April, at 3 p.m.[1]
				Monday, 2nd November, 10–12, 1–3, and 4–6 p.m.	Monday, 11th April, 10–12, 1–3, and 4–6 p.m.
				Tuesday, 3rd November, 10–12 and 1–3 p.m.	Tuesday, 12th April, 10–12 and 1–3 p.m.
				Thursday, 5th November, and following days at 11 a.m. (Orals).	Thursday, 14th April, and following days at 11 a.m. (Orals).
Philosophical	Do. do.	£1 1s.	English Literature,	Saturday, 31st October, at 10 a.m.	Saturday, 9th April, at 10 a.m.
			Logic, - - -	Wednesday, 4th Nov., at 10 a.m.	Wednesday, 13th April, at 10 a.m.
			Moral Philosophy, -	Thursday, 5th November, at 10 a.m.	Thursday, 14th April, at 10 a.m.
Mathematical	Do. do.	£1 1s.	Mathematics, - -	Friday, 6th November, 11–2 and 3–6 p.m.	Friday, 15th April, 11–2 and 3–6 p.m.
			Natural Philosophy,	Saturday, 7th November, 10–1 and 2–5 p.m.	Saturday, 16th April, 10–1 and 2–5 p.m.

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[1] Honours paper only.

Certificate of Literate in Arts.

In 1880 the University Court, after communication with the Senate and the General Council, and with the sanction of the Chancellor, instituted a certificate conferring the title of "Literate in Arts."

The following are the regulations for granting this certificate :—

1. The Certificate of Literate in Arts is open to all persons who have been public students in the Faculty of Arts for not less than two Sessions, and who during that time have given attendance at not less than five of the classes included in the course of study for the M.A. Degree.

2. No student is permitted, with a view to the Certificate of Literate in Arts, to reckon attendance on more than two of the classes included in any one of the three departments of the Arts course, *i.e.*, Classical Literature, Mental Philosophy, and Mathematics.

3. The examination for the Certificate may be taken at one, two, or three periods, at the option of the candidate, and either in April or in November; but in no case can the examinations included in any one department be separated from each other. Candidates presenting more than one subject included in one department must pass in *both* at the same time.

4. The examinations and standard of proficiency required for the said Certificate are, in respect of the classes attended, the same as those demanded in the subjects belonging to the same classes for the M.A. Degree: and the examination papers will be the same as those set in the corresponding subjects for that Degree.

5. When all the subjects are taken at one examination the fee is £2 2s.; when the examination is divided, the fee is £1 1s. for the examination in the department first taken, and £1 1s. for that taken next; but no fee paid with a view to the said Certificate shall be accepted as *pro tanto* payment towards the fee exigible for the M.A. Degree.

6. Not less than three of the five classes constituting the attendance required for the Certificate, and in all cases the last year of the course must have been taken in the University of Glasgow. All the examinations must be passed in this University.

7. The Certificate of Literate in Arts is not open to students whose qualifications for the Certificate are entirely of a date anterior to April, 1880.

The subjects of Examination for the Certificate of Literate in Arts are as follows :—

A. DEPARTMENT OF CLASSICS.

Latin, for November, 1891, *and April*, 1892.

Virgil, *Æneid*, Book XI.
Horace, *Odes*, Books III., IV.
Horace, *Satires*, Book II.
Tacitus, *Germania.*

Any one of the following :—

(*a*) Cicero, any oration or orations of not less than 40 chapters;

(*b*) Cicero's *Epistles*, any 40 consecutive pages (Prichard and Bernard's Selection);

(*c*) Any Book of Livy.

A piece of unseen translation will be added.

Roman Antiquities and *Roman History*, from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI. and VII.).

Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is essential.

Latin, for November, 1892, *and April*, 1893.

Virgil, *Æneid*, Book XII.

Horace, *Odes*, Books II., III.

Horace, *Epistles*, Book I.

Tacitus, *Annals*, Book I.

Any one of the following :—

(*a*) Cicero, any oration or orations of not less than 40 chapters;

(*b*) Cicero's *Epistles*, any 40 consecutive pages (Prichard and Bernard's Edition);

(*c*) Any Book of Livy.

A piece of unseen translation will be added.

Roman Antiquities and *Roman History*, from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI. and VII.).

Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is essential.

Greek, for November, 1891, *and April*, 1892.

Homer, *Odyssey*, Book IX. or XII., or *Iliad*, Book XVI. or XXII.

Sophocles, *Electra*, or Aeschylus, *Prometheus Desmotes*, or *Choephoroi*.

Herodotus, Book IX. to ch. 65, or Thucydides, Book IV., 1-41.

Plato, *Protagoras*, to end of Protagoras' Speech, p. 328 C, or *Apology*.

Unseen translation.

Questions on Greek Grammar, Literature, History, and Antiquities.

The questions on History will refer to Oman's *History of Greece* (478–404 B.C.).

Greek, for November, 1892, *and April*, 1893.

Homer, *Odyssey*, Book IX., or *Iliad*, Book XVI. or XXII.

Aeschylus, *Prometheus Desmotes*, or *Choephoroi*, or Aristophanes, *Eirene*.

Thucydides, Book IV., 1–41.

Plato, *Apology*.

Unseen translation.

Questions on Greek Grammar, Literature, History, and Antiquities.

The questions on History will refer to Oman's *History of Greece* (478–404 B.C.)

B. DEPARTMENT OF MENTAL PHILOSOPHY.

Logic.

The Professor's Lectures, and *Institutes of Logic*, except chapters V., XIII., XX., XXV. (Large Print only).

Moral Philosophy.

The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the class during that session.

English Literature.

April and November, 1892.

1. For students who attended the class during session 1891-2 the subjects specified on pp. 65, 66.
2. For students who attended the class in any previous session:—(1) English Composition, and (for Senior Class) English Philology: (2) History of English Poetry from Thomson to death of Byron; (3) (*a*) Shakespeare's *Julius Caesar*, ed. Beeching; (*b*) Tennyson's *In Memoriam*, especially sections 1 to 56, and 104 to the end (Senior Class); or the Coverley Papers from the *Spectator*, ed. Salmon (Junior Class).

Students who attended both in session 1891-2 and in a previous session may choose either paper.

C. DEPARTMENT OF MATHEMATICS.

Mathematics.

Euclid, First Six Books.

Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers.

Plane Trigonometry, including the solution of Triangles by the aid of Logarithmic Tables.

Natural Philosophy.

Examination on the Subjects explained in the Class, including Astronomy. On the elements of Statics and Dynamics, with the solution of Problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st October, 1891, or 10th March, 1892.[1]

Diploma for Teachers.

This Diploma is open to all students who are preparing themselves for the teaching profession, and who, besides fulfilling the conditions laid down by the Scotch Education Department for a Certificate of competency, shall, in addition, go through a course of study, and pass the corresponding examinations, at the University.

The following are the regulations for the Diploma:—

1. No candidate will be allowed to reckon attendance on any University Class as qualifying for the Diploma unless he produce evidence of having previously passed one or other of the following examinations, or any other examination accepted by the Senate as equivalent to such examinations—

(1) The entrance examination conducted at the Training Colleges with a view to certifying Queen's Scholars as able to profit by University attendance;

(2) The Entrance Examination in Arts at the University; or

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[1] When names are not given in and Fees are not paid on or before the stated dates a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

(3) The Preliminary Examination in Arts (with a view to the three years' course) in not less than two subjects.

2. Candidates for the Diploma must have completed attendance, and passed all the ordinary class examinations, in at least Five subjects out of the following list, viz.: *Latin*, *Greek*, *Mathematics*, *Logic*, *English Literature*, *Moral Philosophy*, *Natural Philosophy*.

3. Attendance on the Junior Classes of Latin, Greek, or Mathematics, do not qualify for the Diploma.

4. After completing attendance and passing the ordinary class examinations in each subject, candidates for the Diploma are required to pass a further examination in the subject of each class so attended.

5. The examinations for the Diploma, in each subject, are the same as those held for the Degree of M.A. in the corresponding subjects, but with the following differences—(1) Candidates are allowed to enter for each subject separately, instead of being obliged to take all the subjects of a Department at once; and (2) In Latin and Greek no books are prescribed, and candidates are only required to pass in the papers in Grammar, Composition, and Unseen Translation.

6. As soon as convenient after the examination in each subject, a list will be issued containing the names of all those who have passed in that subject, arranged in two classes, the lower class denoting a Pass only, the higher class a Pass with superior merit. But no certificates of having passed in single subjects are given to the candidates, until they have gone through the entire course required for the Diploma.

7. Every candidate who has attended not less than five of the classes named above, and passed the corresponding examinations, will be entitled to the Teachers' Diploma as soon as he shall produce evidence that he has received a certificate of competency as a teacher from the Education Department.

8. The Diploma shall bear that it is a Teachers' Diploma granted by the University, and issued only to such candidates as hold a Certificate of Competency from the Department; and it shall enumerate the subjects in which the bearer has given attendance and passed examinations at the University, and state in which degree of merit he has been placed in each.

9. All students who have attended or who may attend any of the Classes enumerated above, having fulfilled the necessary conditions, from and after the Session 1887-88 inclusive, will be permitted to count such attendance with a view to the Diploma; and the examinations held at the close of the Session 1887-88 and thereafter will be counted for the Diploma.

10. A register will be kept, from and after the Session 1887-88, of all Candidates entering for the Diploma, in which the names of all students passing the Teachers' Examination in any subject will be noted, with the degree of merit which they have attained in each subject.

11. The Fee for the Diploma, to be paid when the Diploma is delivered, will be £2 2s.; but no Fee will be charged upon entering for any of the Examinations.

12. Candidates for the Diploma must enter their names, and lodge the necessary certificates, etc., with the Assistant-Clerk (Matriculation Office) at the same time as candidates for the M.A. Degree, not later than the 1st October or the 10th of March respectively.

2. -GRADUATION IN SCIENCE.

Bachelor of Science.

The Senate, with the approval of the University Court, have instituted the Degree of Bachelor of Science, with two alternative lines of study.

The following regulations apply to all students who began their course in 1890 or thereafter.[1]

1. Candidates for a Degree of B.Sc. shall pass a Preliminary Examination in—

1. English.
2. Arithmetic, including Vulgar and Decimal Fractions and Proportion.
3. Elementary Mathematics—
    a. Algebra, including Simple Equations.
    b. Euclid, Books I., II., III.

4, 5. Any two of the following :—French, German, Latin, Greek.

The Examination in subjects 4 and 5 may be taken at the beginning of the second year, but attendance on Classes will not count towards the Degree until the Candidates shall have passed in subjects 1, 2, and 3. A Candidate who has passed a University Local Examination or the Examination of any of the Examining Bodies enumerated at pp. 158-161, is exempted from this Examination, provided that the whole of the five subjects have been passed at one time, or that the first three have been passed at one time and the last two at another. Candidates having the Degree of M.A. are also exempted ; and the possession of a Leaving Certificate in any subject entitles the holder to exemption from examination in that subject.

This Preliminary Examination takes place along with the Examination in General Education for Medical Students (see pp. 147-148). The Text-Books prescribed in the several subjects and the Examination Papers are the same in both examinations.

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[1] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations which are given in the Calendars for 1884-5, and for five following sessions.

2. The alternative departments are—A. In Natural Science; B. In Engineering Science.

A. In Natural Science.

3. The subjects of study are as follows:—

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Botany.
5. Zoology.
6. Astronomy.
7. Geology and Mineralogy.
8. Anatomy.
9. Physiology.

In the Department of Natural Science the course of study occupies three whole years, and Students are recommended to take up the qualifying courses in the following order according to the group selected:—

GROUP I.

Mathematics and Natural Philosophy.

Sessions.	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Mathematics (Senior), Natural Philosophy, Zoological Laboratory.
2nd Summer.	Physical Laboratory.
3rd Winter.	Mathematics (Upper Senior), Natural Philosophy, Astronomy.
3rd Summer.	Physical Laboratory.

GROUP II.

Experimental Physics and Chemistry.

Sessions.	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Mathematics (Senior), Natural Philosophy, Zoological Laboratory.
2nd Summer.	Physical Laboratory, Chemical Laboratory.
3rd Winter.	Natural Philosophy, Chemical Laboratory.
3rd Summer.	Physical Laboratory.

GROUP III.

Astronomy, Geology and Mineralogy.

Sessions.	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.

2nd Winter.	Natural Philosophy, Geology Lectures and Demonstrations, Astronomy.
2nd Summer.	Zoological Laboratory.
3rd Winter.	Mathematics (Senior),[1] Chemical Laboratory,[1] Botanical Laboratory,[2] Zoological Laboratory,[2] Geology.
3rd Summer.	Geology Demonstrations.

GROUP IV.

Botany and Zoology.

Sessions.	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany.
2nd Winter.	Natural Philosophy, Zoological Laboratory, Advanced Botany.
2nd Summer.	Botanical Laboratory, Physiological Laboratory.
3rd Winter.	Practical Botany, Physiology.
3rd Summer.	Zoology, Zoological Laboratory.

GROUP V.

Physiology and Vertebrate Anatomy.

Sessions.	
1st Winter.	Mathematics (Upper Junior), Chemistry, Zoology.
1st Summer.	Chemical Laboratory, Botany and Botanical Laboratory.
2nd Winter.	Natural Philosophy, Zoological Laboratory, Junior Anatomy.
2nd Summer.	Zoological Laboratory, Practical Anatomy, Practical Physiology.
3rd Winter.	Senior Anatomy and Practical Anatomy, Physiology—Lectures and Laboratory.
3rd Summer.	Practical Anatomy.[3]

4. In the Department of Natural Science the Examinations are two in number, and in the subjects admitting of it shall be both practical and oral as well as in writing. Candidates must pass in all the subjects of the first before being admitted to the second.

First Examination (Spring and Autumn).—Candidates must pass in the following five subjects :—

A. 1. Mathematics.
   2. Natural Philosophy.

B. 3. Chemistry.
   4. Botany.
   5. Zoology.

The parts A and B may be taken together, in Spring or in Autumn ; or they may be taken separately, A in Spring or Autumn, and B in Autumn or Spring.

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[1] Classes to be taken only by Students paying special attention to Mineralogy.
[2] Classes ,, ,, ,, ,, Palæontology.
[3] Certificates must be produced showing that the whole body has been dissected.

The examination papers in 1 and 2 are the same as those for the examination in the Department of Mathematics for the Degree of M.A. ; the examination papers in 3, 4, and 5 are the same as those for the First Professional Examination for the Degree of M.B., with additional questions.

Second Examination (Spring).—Candidates may select any one of the following five groups :—

I. Mathematics, Natural Philosophy.
II. Experimental Physics, Chemistry.
III. Astronomy, Geology and Mineralogy.
IV. Botany, Zoology.
V. Physiology, Vertebrate Anatomy.

B. In Engineering Science.

5. There are four alternative courses :—(*a*) Civil Engineering ; (*b*) Chemical and Mining Engineering ; (*c*) Mechanical and Electrical Engineering ; (*d*) Naval Architecture and Marine Engineering.

The courses of study are as follows :—

(*a*) Civil Engineering.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology.
5. Geodesy.
6. Practical Chemistry, or Physical Laboratory, with a practical examination in the work of whichever is chosen.
7. Engineering Classes I., II., and IV.
8. Engineering Drawing and Calculations.

(*b*) Chemical and Mining Engineering.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology and Mineralogy.
5. Chemical Laboratory.
6. Engineering Classes I., II., III., and IV.
7. Engineering Drawing and Calculations.

(*c*) Mechanical and Electrical Engineering.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology, or Geodesy, or Practical Chemistry.
5. Physical Laboratory.
6. Engineering Classes I., III., and IV.
7. Naval Architecture, Junior.
8. Engineering Drawing and Calculations.

(*d*) NAVAL ARCHITECTURE AND MARINE ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Chemical or Physical Laboratory, with a practical examination in the work of whichever is chosen.
5. Engineering Class III. or IV.
6. Naval Architecture, including Marine Engineering.
7. Ship Drawing and Calculations.

In the Department of Engineering Science the course of study occupies three whole years, and the qualifying courses in the several subjects are as follows :—

Mathematics.—Two sessions at least, including the Senior Class. (Students who satisfy the Professors in the Faculty of Arts that they are qualified to enter the Senior Class will be required only to attend that class.)

Natural Philosophy.—Attendance for one or two sessions upon the ordinary course (according to proficiency displayed), including attendance in the Higher Department.

Chemistry.—Lectures on Systematic Chemistry.

Geology.—Lectures on Geology, and in the event of candidates taking the Mining and Chemical group, those on Mineralogy.

Geodesy.—The Lectures of the Professor of Astronomy.

Physical Laboratory.—Attendance for at least one session.

Chemical Laboratory.—Attendance for at least one session.

Practical Chemistry.—The special course of Practical Chemistry in the winter session, or the summer course of Practical Chemistry.

Engineering.—Attendance upon the courses specified under the several groups. These courses are—I. The Materials of Construction and the Elements of Applied Mechanics ; II. Surveying, Levelling, and Setting out of Works, etc. ; III. Prime Movers and the Mechanics of Machinery ; IV. Higher Applied Mechanics : the Strength of Materials and of Structures : Hydraulics.

Engineering Drawing and Calculations—Attendance for three sessions in the courses of Drawing and Calculations of the Professor of Engineering (one or two sessions may be omitted by students entering with sufficient previous preparation, on application being made to the Senate).

Naval Architecture and Marine Engineering.—The three courses of the Professor of Naval Architecture and Marine Engineering, except in the Mechanical Engineering group, in which the Junior Course only is required.

Ship Drawing and Calculations.—Attendance for three sessions on the courses of Drawing and Calculations of the Professor of Naval Architecture and Marine Engineering.

6. In the Department of Engineering Science, candidates may present themselves for examination in any one or more of the subjects of study as soon as they have attended the requisite classes.

7. No candidate shall be admitted to examination in any subject who has not attended a course of instruction in that subject recognized by the University. No student shall be admitted to the Degree of B.Sc. in this University unless he has given attendance in this University during the last two years of his curriculum, a year's attendance being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each.[1]

8. The successful candidates at the Examinations preceding the Final shall not receive special certificates, but a certified list shall be published in the Quadrangles, and recorded in a book kept for this purpose by the Assistant Clerk (Matriculation Office). Both lists shall be signed by the Examiners.

9. Students who have passed satisfactorily examinations on the prescribed subjects are entitled forthwith to receive the Degree of Bachelor of Science without Honours; but they may, before taking a Degree, offer themselves for a further examination in Engineering Science, or in any of the five groups in Natural Science, with a view to Graduation with Honours; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, may proceed to such examination without having previously passed the examination in those subjects for the Degree of Bachelor of Science without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in those subjects for the Degree of Bachelor of Science without Honours, but if he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled to the Degree of Bachelor of Science.

10. Examinations for the Degree of M.A. are available for the Degree of B.Sc. on the candidate paying the fees for examination for that Degree, over and above any fees he may have paid as a candidate for the Degree of M.A.

11. The fee for the Preliminary Examination shall be Ten

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[1] The possession of a diploma of the Glasgow and West of Scotland Technical College, granted in accordance with the regulations contained in the Technical College Calendar for 1889-90, shall be reckoned to the holder as equivalent to the first two years' attendance at the University for the degree of B.Sc., but no holder of said diploma shall be admitted to the degree of B.Sc. unless he has given attendance in this University for not less than one year after obtaining his diploma.

Shillings, payable when the candidate enters his name for the examination.[1] In the Department of Natural Science a fee of £1 11s. 6d. is payable when a candidate enters his name for each of the two examinations; in the Department of Engineering Science a fee of £1 1s. is payable in each session in which the candidate is examined, till £3 3s. shall have been paid.

For Table of Fees and dates of examinations, see page 141.

Doctor of Science.

Candidates for this Degree are required to have taken the Degree of B.Sc. with honours. If from any cause honours be not taken at the time of graduation, the candidate must pass an examination equivalent to the honours examination, not sooner than one year after graduation, but the passing of this examination will not entitle him to a place in the list of Graduates with honours. Candidates who have not obtained the Degree of B.Sc. with honours are not allowed more than one opportunity of passing the equivalent examination. The fee for this examination is Two Guineas.

A candidate may present himself for the Degree of D.Sc. after the lapse of five years from the date of his taking B.Sc. with honours or of passing the equivalent examination. The candidate must furnish evidence that during that time he has been prosecuting the study of the subject in which he seeks to take the Degree of D.Sc. Candidates must be prepared to undergo examination, practical, or written, or both, on the higher departments of the subject, and must produce some original work. Separate publications, or researches published in Journals or in the Proceedings or Transactions of Scientific Societies, during the five years, may be presented in evidence of original work. The fee for the Degree of D.Sc. is Ten Guineas, under deduction of the fee that may have been paid for the equivalent examination.

The above regulations apply only to those who obtain the Degree of B.Sc. after session 1888-9. Applications for the Degree of D.Sc. from those who obtained the Degree of B.Sc. prior to or during Session 1888-9 shall be dealt with individually by the Senate, upon the candidate showing the grounds on which he bases his application.

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[1] Any Candidate who has failed to appear at the Examination, or has failed to pass in the Subjects for which he has entered his name, shall, on application, be admitted to Examination in these Subjects at *one* subsequent Examination, without payment of Fee.

TABLE OF EXAMINATIONS FOR DEGREE OF B.SC., TO BE HELD DURING SESSION 1891-92.

Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.[1]	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow immediately after the Written.						
		1891.						
17th Sept., 1891	£0 10 0	Wed., 30th Sept.,	Arithmetic,	9—11 a.m.	Latin,	12 noon—2 p.m.	English,	3—5 p.m.
		Thur., 1st Oct.,	Elementary Mathematics,	9—11 a.m.			French,	3—5 p.m.
		Fri., 2nd ,,	Greek,	9—11 a.m.				
		Sat., 3rd ,,					German,	3—5 p.m,
17th Sept., 1891	£3 3 0 in all, payable as at p. 140.	Mon., 5th ,,	Zoology,	10 a.m.	Botany,	12-30 p.m.	Geology and Mineralogy,	3 p.m.
		Mon., 5th ,,	Geodesy,	10 a.m.				
		Tues., 6th ,,	Chemistry,	10 a.m.	Engineering Drawing, etc.,	12-30 p.m.		
		Tues., 6th ,,			Naval Architecture,	12-30 p.m.	Ship Drawing, etc.,	3 p.m.
		Tues., 6th ,,			Physiology,	12-30 p.m.	Anatomy,	3 p.m.
		Tues., 6th ,,	Practical Chemistry,	12 noon, 2 p.m., and 4 p.m.				
		Wed., 7th ,,	Civil Engineering,	10 a.m.	Civil Engineering,	12-30 p.m.		
		Fri., 6th Nov.,	Mathematics,	11—2 p.m., and 3—6 p.m.				
		Sat., 7th ,,	Natural Philosophy,	10—1 p.m., and 2—5 p.m.				
		1892.						
9th Mar., 1892	£0 10 0	Wed., 23rd Mar.,	Arithmetic,	9—11 a.m.	Latin,	12 noon—2 p.m.	English,	3—5 p.m.
		Thur., 24th ,,	Elementary Mathematics,	9—11 a.m.			French,	3—5 p.m.
		Fri., 25th ,,	Greek,	9—11 a.m.				
		Sat., 26th ,,					German,	3—5 p.m
9th Mar., 1892	£3 3 0 in all, payable as at p. 140.	Tues., 29th ,,	Zoology,	10 a.m.	Botany,	12.30 p.m.	Geology and Mineralogy,	3 p.m.
		Tues, 29th ,,	Geodesy,	10 a.m.				
		Wed., 30th ,,	Chemistry,	10 a.m.	Engineering Drawing, etc.,	12.30 p.m.		
		Wed., 30th ,,			Naval Architecture,	12.30 p.m.	Ship Drawing, etc.,	3 p.m.
		Wed., 30th ,,			Physiology,	12.30 p.m.	Anatomy,	3 p.m.
		Wed., 30th ,,	Practical Chemistry,	12 noon, 2 p.m., and 4 p.m.				
		Mon., 11th April,	Civil Engineering,	10 a.m.	Civil Engineering,	12.30 p.m.		
		Fri., 15th ,,	Mathematics,	11—2 p.m., and 3—6 p.m.				
		Sat., 16th ,,	Natural Philosophy,	10—1 p.m., and 2—5 p.m.				
		Sat., 16th ,,	Experimental Physics,	10—1 p.m., and 2—5 p.m.				

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

Certificate of Proficiency in Engineering Science.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

Ordinary Course for the Certificate of Proficiency in Engineering Science.

FIRST YEAR—

Inorganic Chemistry, 5 days weekly, beginning in Oct., 10 A.M.

(*Chemical Laboratory may be taken in this or any other year, Winter or Summer Session, if selected as part of the course. See below :—Third Year.*)

Mathematics,[1] Lower or Upper Junior, 5 days weekly, - - - - - - - - 9 A.M. or 12 noon.
Engineering, Course I., Mondays, Wednesdays, and Fridays, - - - - - - - - 8 A.M.
Engineering Drawing and Calculations.
Geology and Mineralogy, 5 days weekly, beginning in January, - - - - - - 1 P.M.

SECOND YEAR—

Natural Philosophy, 5 days weekly, - - 9 A.M.
Also recommended, if practicable, Tues. and Thur., - 11 A.M.
Mathematics, Senior or Upper Junior, 5 days weekly, - - - - - - 10 A.M. or 9 A.M. or 12 noon.
Engineering, Course III. or II., Tuesdays, Thursdays, and Saturdays, - - - - - 8 A.M.
Engineering Drawing and Calculations.

THIRD YEAR—

Senior Mathematics, if not previously attended, 5 days weekly, - - - - - - - - 10 A.M.
Physical Laboratory, about 2 hours on 3 days weekly, or Chemical Laboratory, 5 days weekly ; or the Chemical Laboratory can be attended in any year in summer instead.

Engineering, Course IV., 5 days weekly, - - 9 A.M.

No candidate is admitted to the special Examination for the Certificate, in any department, till he has attended the prescribed course of study in that department.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, or Geology, in any Chartered University in the United

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[1] Students who, on entering the University, show themselves qualified to enter the Senior Mathematical Class, by passing the mathematical part of the Preliminary Examination in Arts (see Preliminary Examinations in Arts) are not required to attend the Lower or the Upper Junior Class of Mathematics.

Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate ; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

The Fee for the Certificate in Engineering Science is One Guinea.

3.—HIGHER DEGREES IN LETTERS AND PHILOSOPHY.

The Senate having had under consideration proposals for the Degrees of Doctor in Letters (D.Litt.), and Doctor in Philosophy (D.Phil.), are of opinion that these Higher Degrees should be instituted in the University. It is not clear, however, that the University itself has power to institute those Degrees. The Senate have had negotiations with the University of Edinburgh regarding this matter, and are glad to be able to say that the two Universities are in substantial agreement on this subject, and also as to the conditions on which the degrees should be conferred. The Senate trust that they may be in a position at an early period, in conjunction with the University of Edinburgh, to bring the matter before the Universities Commissioners who have been appointed under the Act of 1889, with a view to a final determination. Meanwhile the Senate are desirous of stating the conditions on which they have resolved that the Higher Degrees should be conferred, in order that candidates who are looking forward to them may be aware of the terms on which they will be granted. These conditions are as follows :—

(1) That the degrees of D.Litt. and D.Phil. should be open to those who have graduated with first or second class honours in Classics or Philosophy respectively ; and to those who at a period subsequent to their taking the M.A. degree have passed an examination equivalent to the examination for honours. (This last provision is introduced to meet the case of those who have been prevented by ill-health, or other causes, from taking honours at the proper time.)

(2) That the degrees of D.Litt. and D.Phil. should be open to graduates with honours five years after the date of graduation as M.A., and in the case of ordinary graduates the date of passing an examination equivalent to the examination for honours.

(3) That every candidate for the degree of D.Litt. or of D.Phil. should be required to state what line of study or investigation he has followed since taking the degree of M.A. and to submit a thesis upon a subject approved by the Senate, and, in addition, to undergo an examination in some special branch of his department of Arts ; and that in such thesis and examination he should be expected to give proof of special study or original research, and that the claims

of each candidate should be specially reported on by two Professors or other qualified persons before the degree is conferred.

(4) That in special cases, when the candidate is able to refer to a book or other publication in which he has made important contributions to the knowledge of his subject, the Senate should, if they see fit, dispense with the test of examination; but that in all such cases a special Committee should be appointed to report on the claims of the candidates, and the Senate should confer the degree only on the recommendation of such Committee.

(5) That in addition to the examinations in Arts, examinations should be instituted in English Language and Literature, in Oriental Languages, and in any other subjects which may in future be embraced in any department of the M.A. degree; and that candidates who have taken that degree, and who in such examinations have attained a standard of proficiency corresponding to that of first or second class honours in Arts, should be entitled to become candidates for the degree of D.Litt., by thesis and examination, on the same terms with those who have passed with honours in Arts.

The above rules sufficiently indicate the general plan of the Examinations for the Higher Degrees; but by way of showing more exactly their nature, the following subjects may be suggested:—

FOR THE DEGREE OF D.LITT. IN CLASSICS.

A candidate for the degree of Doctor of Letters, who founds his claim on attainments in Classical Scholarship, will be required to send in a thesis, embodying the results of original work in some one of the following departments:—

1. Ancient Philosophy.
2. History.
3. Archæology.
4. Language.

The Classical Examination for the degree of Doctor of Letters shall include:—

1. Passages for translation, selected from the best Greek and Latin authors. No authors shall be specially set for a given occasion, but the examiners shall be free to choose the passages from the whole range of the Classical Literatures.

2. Passages for translation from English into Greek and Latin Prose.

Passages for translation from English into Greek and Latin verse. But a candidate who does not take up Verse Composition shall have some other exercise appointed for him; viz., an essay, or such other alternative as the examiners may approve.

3. Questions on Greek Grammar and Criticism. Questions on Latin Grammar and Latin Criticism.

4. Questions on Greek History (including the History of Literature) and Greek Antiquities. Questions on Roman History (including the History of Literature) and Roman Antiquities.

FOR THE DEGREE OF D.LITT. IN ORIENTAL LANGUAGES.

Semitic Branch.

Subjects proposed for examination in Semitic Philology :—

1. *Hebrew.*—The Books of Isaiah and Psalms. Translation into Hebrew.

2. *Syriac.*—The Gospels and the Acts of the Apostles in the Peshîtâ Version. Translation into Syriac.

3. *Arabic.*—The three first Suras of the Koran. The book of Proverbs in Van Dyck's version of the Bible. Translation into Arabic.

FOR THE DEGREE OF D.PHIL. IN PHILOSOPHY.

1. The Philosophy of Aristotle. The candidate should be expected to show direct acquaintance with the Philosophical works of Aristotle ; and with the views of the most important of the modern critics of his philosophy.

2. Mediæval Philosophy ; its origin, development, and influence on modern thought, philosophical and theological.

3. The relation of Logic and Metaphysics—with special reference to the Organon and Metaphysics of Aristotle and modern systems of Logic, including the Logic of Hegel. Candidates should be expected to show thorough acquaintance with the discussions upon the nature of knowledge by modern authors.

4. Modern Psychology. Candidates should be expected to show acquaintance with the whole development of Psychology from the time of Kant ; and to have studied the discussions on Psychophysics which have taken place up to the present time.

5. Modern Ethics—with special reference to the application of the idea of Development to Ethics. Candidates should be expected to show a thorough knowledge of the discussions of this subject up to the present time.

6. Philosophy in Britain from Locke to the present time.

4.—GRADUATION IN MEDICINE.

Three Medical Degrees are conferred by this University, viz. : —Bachelor of Medicine (M.B.) ; Master in Surgery (C.M.) ; and Doctor of Medicine (M.D.) ; all of which are recognized by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

The Degrees of Bachelor of Medicine and Master in Surgery may be obtained by Candidates of the age of 21 years who have complied with the regulations as to Education and Examination.

The Degree of Master in Surgery shall not be conferred on any person who does not at the same time obtain the Degree of

Bachelor of Medicine, nor shall the Degree of Bachelor of Medicine be conferred on any one who does not at the same time obtain the Degree of Master in Surgery.

The following rules and directions apply to the Degrees of Bachelor of Medicine and Master in Surgery :—

A.—EXAMINATION OF MEDICAL STUDENTS IN GENERAL EDUCATION AND REGISTRATION BY THE MEDICAL COUNCIL.

The Candidate for the Degrees of Bachelor of Medicine and Master in Surgery must have been registered in the books of the General Medical Council at least four years prior to the date of his graduation. Students should see to registration without delay, as considerable trouble and disappointment have sometimes arisen through ignorance or neglect of this requirement. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 1 George Square, Edinburgh, together with a printed form of application which may be obtained from the Assistant Clerk (Matriculation Office), a certificate of having passed a satisfactory Preliminary Examination in English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics, along with one of the following subjects, viz., French, German, Greek, or Logic.

A Degree in Arts (not being an Honorary Degree) of any of the Universities of England, Scotland, and Ireland, and also a Degree in Arts of any Colonial or Foreign University which may for this purpose have been specially recognized by the University Court, shall exempt Candidates from all preliminary examination.

The Examination in General Education may be passed either in this University[1] or at any University or Board of which the examinations are recognized by the General Medical Council as entitling to registration.[2] But while a Certificate of having passed any recognized Preliminary Examination entitles to registration in the books of the General Medical Council, the University only accepts these Examinations *pro tanto*, and exacts examination in every case on such subjects required by the regulations of the University as are not embraced in the certificates presented from other Examining Boards, or which, though included therein, are not of similar extent to the same subjects as prescribed by the University. In such cases this Examination required by the

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[1] A Local Centre in connection with this Examination has been established in the University College of North Wales, Bangor. Candidates who prefer to sit for examination there must intimate their desire when returning schedule of entry to Glasgow. Such Candidates are required, on taking their seats at Bangor, to pay to the College Authorities there a special fee of 5s. This is in addition to the ordinary fee of 10s., payable at Glasgow, as mentioned at page 156. The Examinations are held simultaneously in Bangor and Glasgow.

[2] For a list of such Examining Boards, see p. 158.

University must be passed by the Candidates before enrolment for their First Professional Examination.

This registration in the books of the Medical Council, which is imperative on Candidates for any legal qualification to practise whatsoever, is quite distinct from Matriculation or other registration of students in the books of the University.

The following is a more detailed notice of the subjects of the Examination in General Education referred to above :—

I. **Registration Subjects.**—The Student must pass in all the subjects of this division before Registration with the Branch Registrar of the Medical Council. The subjects may be passed at one or more Examinations. For fees and dates of this Examination see page 156.

1. English.—(1) Writing correctly a passage to dictation. (2) Composition of a short essay on a given theme. (3) Questions
A on Grammar, with analysis of sentences and the derivation and meaning of some common English words.

2. Latin.—Virgil, *Æneid*, Book II., and Cæsar *de Bello Gallico*,
B Book V. Translations from the above. Translation of passages from works not prescribed, and of English passages into Latin,—the principal Latin words being supplied. Questions on Grammar and Construction.

C 3. Arithmetic.—The Common Rules, including Vulgar and Decimal Fractions.

C 4. Elements of Mathematics.—
(*a*) Algebra (including Simple Equations), and Euclid, Book I.
(*b*) Euclid, Books II. and III.[1]

5. Elementary Mechanics of Solids and Fluids.—
D Elementary Kinematics, Statics, Kinetics, and Hydrostatics. Text-books — Bottomley's Dynamics (Collins' Series); Blaikie's Elements of Dynamics.

6. Any one of the following :—Greek, French, German, Logic, as prescribed under II. (Optional subjects for M.B. and C.M.)

In addition to the above-mentioned Preliminary Examination, Candidates for the Degrees of Bachelor of Medicine and Master in Surgery are required to undergo, previous to their First Professional Examination (and, it is recommended, as far as possible previous to the commencement of professional study), an examination in one of the following, other than the one selected under 6 above : Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy, as detailed below.

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[1] The subjects under (*b*) are not required for Registration ; they may be passed at the same time as those under (*a*) or at a subsequent Examination, but they must be passed before the First Professional Examination. After 1st Jan., 1892, Geometry shall include the subject matter of Euclid, Books I. II. and III., with easy deductions.

II. Optional Subjects for M.B. and C.M.—

E 1. Greek.—Xenophon, *Anabasis*, Book IV., and the Gospel according to St. Luke. Translation of passages from works not prescribed, and of English passages into Greek—the principal Greek words being supplied. Questions on Grammar.

2. French.—Racine's *Athalie* (Hachett's French Classics). Translation and exercises as in the Latin and Greek.

3. German.—Schiller's *Jungfrau von Orleans.* Translation and exercises as in the other languages.

C 4. Higher Mathematics.—Euclid, Books I. to VI.; Algebra, including Quadratic Equations, and the Rudiments of Trigonometry.

D 5. Natural Philosophy.—Everett's Elementary Text-Book of Physics (Chapters on Sound and Heat) or Part II. of Todhunter's Natural Philosophy for Beginners, viz., Sound and Heat, omitting chapters xii. xiii. in Sound, and in Heat from sec. 732 to 746.

F 6. Logic.—Jevons' Elementary Lessons on Logic.

G 7. Moral Philosophy.—Herbert Spencer's Data of Ethics.

A certificate of having passed, at the Examinations for the Degree of M.A., or B.Sc., in English, Latin, Mathematics, Natural Philosophy, Greek, Logic, or Moral Philosophy, will be accepted instead of examination in the subjects marked A, B, C, D, E, F, G, respectively.

III. Subjects for Degree of M.D.—The Candidate for the Degree of M.D., if not a graduate in Arts, must have passed a satisfactory Examination in Greek and in Logic or Moral Philosophy, and in one at least of the following subjects, viz.:—French, German, Higher Mathematics, Natural Philosophy, and Natural History.

B.—PROFESSIONAL EDUCATION.

1. *Duration and Constitution of the Curriculum.*—No one shall be admitted to the Degree of Bachelor of Medicine or Master in Surgery, who has not been engaged in medical and surgical study for four years,[1]—the medical session of each year, or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each; but in the case of the Clinical Courses, it shall be sufficient that the lectures be given at least twice a week during the prescribed periods.

One at least of the four years of medical and surgical study above required must be in the University of Glasgow.

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[1] A Minute of the General Medical Council of date 6th June, 1890, bears that after 1st January, 1892, the period of Professional Study, between the date of Registration as a Medical Student and the date of Final Examination for any Diploma giving a title to Registration under the *Medical Acts*, must be a period of *bona fide* Study during not less than five years.

Another of such four years must be either in the University of Glasgow, or in some other University entitled to give the degree of Doctor of Medicine.

Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such four years, and to that extent shall be held equivalent to one year's attendance on courses of lectures, as above prescribed.

One year's attendance on the Lecturers or Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, may be reckoned as one of such four years; and to that extent shall be held as attendance on courses of lectures as above prescribed.

Attendance on the lectures of any private Teacher or Teachers of Medicine whose lectures have, by regulation of the University Court, with consent of the Chancellor of the University, been recognized for the purpose of graduation in the University, may be reckoned in place of the year's attendance last above mentioned, or as part thereof, as the case may be.

Candidates may, to the extent of four of the departments of medical study enumerated in "required courses of instruction," attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the Teachers of Medicine specified in the two immediately preceding paragraphs.[1]

All Candidates availing themselves of the permission to attend the lectures of private Teachers, and not being at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, paying a fee of one-half the amount of the matriculation fee paid by students of the University; but they shall not be thereby entitled to any of the privileges of a matriculated student of the University.

The fee for attendance on the lectures of any private Teacher, with a view to graduation, shall not be of less amount than that exigible by Medical Professors of the University for the same course of instruction. (*The fees must be paid at the commencement of the course.*)

No attendance on Lectures shall be reckoned, if the Teacher gives instruction in more than one of the prescribed branches of study, except in those cases where Professors of the University are at liberty to teach more than one branch.

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[1] In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a Candidate can complete only one *Annus Medicus*, constituted by attendance at a General Hospital accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

2. *Required Courses of Instruction.*—Every Candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall give sufficient evidence by certificates:—

(1.) That he has studied each of the following departments of medical science, viz.:—

ANATOMY, - - - - -	During courses including not less than one hundred lectures.
CHEMISTRY, - - - - -	
MATERIA MEDICA and PHARMACY,	
INSTITUTES OF MEDICINE or PHYSIOLOGY, - - - - -	
PRACTICE OF MEDICINE, - -	
SURGERY, - - - - -	
MIDWIFERY and the DISEASES peculiar to WOMEN and CHILDREN; two courses of Midwifery, of three months each,[1] being reckoned equivalent to a six months' course, provided different departments of Obstetric Medicine be taught in each of the courses,	
PATHOLOGICAL ANATOMY, during a three months' course of lectures, together with a supplemental course of Practice of Medicine or Clinical Medicine; or a course of not less than one hundred lectures on General Pathology,	
PRACTICAL ANATOMY, - - -	Six months.
PRACTICAL CHEMISTRY, - -	Three months.
PRACTICAL MIDWIFERY, - -	Three months on the indoor practice of a Lying-in Hospital, or presence at not less than twelve labours, at least three of which must be conducted personally by the candidate under the direct supervision of a Registered Practitioner.
CLINICAL MEDICINE, - - -	During courses of six months, or two courses of three months; lectures being given at least twice a week.
CLINICAL SURGERY, - - -	
MEDICAL JURISPRUDENCE, - -	During courses including not less than fifty lectures.
BOTANY, - - - - -	
ZOOLOGY with COMPARATIVE ANATOMY, - - - - -	

(2.) That he has attended for at least two years the medical and surgical practice of a general hospital, either at

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[1] The Fee for each course of Midwifery of three months is £2, 2s.

Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

(3.) That he has attended, during a course of not less than fifty hours' instruction, the class of Practical Materia Medica in the University of Glasgow; or a similar class in a University or School of Medicine, attendance on which is recognized by the Ordinance; or a similar class conducted by a teacher recognized by the University Court under the Ordinance; or, that he has been engaged for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a Surgical College or Faculty, of a licentiate of the London or Dublin Society of Apothecaries, or of a member of the Pharmaceutical Society of Great Britain. [Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of Materia Medica; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on Materia Medica, which must be taken before the third Professional Examination.]

(4.) That he has attended for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician, surgeon, or member of the London or Dublin Society of Apothecaries.

VACCINATION.—The candidate must produce a certificate from a recognized Vaccination department in an hospital, dispensary, or other public institution, that he has performed the operation successfully under the Teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.[1]

C.—PROFESSIONAL EXAMINATIONS.

By orders of Her Majesty in Council, dated 13th August, 1877, 23rd August, 1883, 27th January, 1885, and 26th March, 1885, the following are the arrangements for Professional Examinations:—

1. Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and *viva voce*, First, on Chemistry, Botany, and Natural History; Second, on Anatomy and Physiology; Third, on Regional Anatomy, and Materia Medica and Pharmacy; and Fourth,

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[1] The recognized Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Pathology, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.

2. Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and one summer session: provided always that students shall not be admitted to such examination at an earlier date than the period of examination immediately preceding their second winter session of professional study; and that students who commenced their medical studies in the summer session shall not be admitted to a degree in medicine unless their course of study, subsequent to the completion of the summer session in which they commenced their medical studies, shall not be less than the minimum course of four years prescribed by this Ordinance.
3. Students who have passed the first examination may appear for examination in the second division of subjects, after having completed their attendance on the requisite courses (including those of the subjects of examination) after the lapse of two winter and three summer sessions from the time of the commencement of their studies; provided always that students who have commenced their medical studies with a winter session may appear for examination in the second division of subjects after the lapse of two winter and two summer sessions from the time of the commencement of their studies.
4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).
5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their Curriculum of study.

In addition, the following regulations will be observed:—

1. The examinations will be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.

2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to enrol himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
3. Previous to appearing for the final examination the candidate must produce a declaration in his own handwriting that on the day of graduation, he will have completed his twenty-first year and will not be under articles of apprenticeship.
4. At the professional examinations, candidates will as far as possible be examined orally in the alphabetical order of their surnames.
5. If any Candidate, on examination, be found unqualified, he shall not be again admitted to examination unless he shall have completed another year of medical study, or such portion of another year as may be fixed by the examiners when he is found unqualified.
6. Every Candidate must matriculate at the University for the year in which he enters for professional examination or for graduation.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

For Table of Fees and dates of examinations see page 156.

D.—DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and is of the age of twenty-four years, and has been engaged, subsequently to his having obtained the degree of Bachelor of Medicine, for at least two years in attendance on an hospital, or in the Military or Naval medical service, or in medical or surgical practice: Provided always that the degree of Doctor of Medicine shall not be conferred on any person, unless he be a graduate in Arts within the fifth section of the Ordinance, or unless he shall have passed a satisfactory examination in Greek, and in Logic or Moral Philosophy, and in one, at least, of the following subjects, namely, French, German, Higher Mathematics, Natural Philosophy, and Natural History. Provided also that each candidate for the degree of Doctor of Medicine shall present an Inaugural Dissertation composed by himself to be approved by the Senatus Academicus. Such Dissertations or Theses[1] must be lodged with the Assistant Clerk (Matriculation Office), on or before 20th March, 20th June, or 20th October. No Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited : mere compilations will in no case be accepted. The fees for the Degree of M.D. amount to £15, 8s. (including the sum of £10, 3s. for Government stamp, etc.).

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[1] Candidates are requested to have their Theses bound before sending them in.

E.—DIPLOMA IN PUBLIC HEALTH.

The following regulations as to instruction in Public Health and as to examinations for the Diploma in Public Health prepared by the Senate have received the sanction of the University Court :—

I. The University provides instruction in Public Health by Laboratory training and otherwise.

II. The subjects of instruction are :—

Duties of Health Officer, Air and Ventilation, Food and its Adulterations, Water and Water Supply, Sewerage and Drainage ; Construction of Hospitals, Public Buildings, and Dwellings ; Overcrowding, Manufactories, Insalubrious Trades, Cemeteries, Nuisances, Quarantine, Disinfectants and Deodorizers, Outbreaks of Zymotic Diseases ; Climate, Topographical and Seasonal : its influences in relation to Health and Disease ; Geographical Distribution of Diseases ; Knowledge of leading Sanitary Acts of Parliament, Vital Statistics.

III. The Laboratory training is provided in a special department of the Chemical Laboratory. Practical instruction is given in the following subjects :—

(*a*) *Water.*—Qualitative examination ; Colour, odour, and suspended matters. Quantitative examination : ammonia, albuminoid ammonia, nitric and nitrous acids, sulphuric and phosphoric acids, chlorine, total solids, lime, magnesia, alkalies, silica in solution, the hardness before and after boiling ; Clark's process for softening water ; explanations and illustrations of methods employed to purify water by chemical processes and by filtration.

(*b*) *Air.*—Qualitative and quantitative examination for gaseous impurities and suspended matters.

(*c*) *Water and Air.*—Bacteriological methods of examination. Micro-organisms, moulds, and fungi, and their identification. Pure cultures.

(*d*) *Soils.*—Nature and examination of soils ; ground-water, sewage.

(*e*) *Antiseptics and Disinfection.*—The relative value of various antiseptics and disinfectants and the methods of employing them.

(*f*) *Foods.*—Quantitative examination of milk, butter, tea, coffee, sugar, alcoholic beverages, aerated waters for poisonous substances. Qualitative examination of bread and flour, of cereal, farinaceous, and other food substances and condiments; chemical and microscopic examination for common adulterations, colouring matters, animal organisms, and poisonous substances; examination of food substances for fungoid growths, and poisonous substances resulting from the same.

IV. The Diploma in Public Health may be obtained by any Bachelor of Medicine of this University on his passing the required examination twelve months after he has taken the degree of M.B.

V. Every candidate for a Diploma in Public Health shall give sufficient evidence by certificates:—

1. That after obtaining the Degree of M.B. he has undergone the practical training provided under Regulation III.
2. That he has for six months practically studied the duties of out-door Sanitary work under the Medical Officer of Health of a County or large Urban District.

VI. The examination shall be written, practical, and oral. The subjects of examination are as follows:—

A. Physics, Meteorology, and Climatology, with special reference to Heat and Ventilation, Water supply, Drainage, and the Geographical distribution of Disease.

B. Chemistry and Biology.—The composition and analysis (qualitative and quantitative) of Air, Water, and Sewage; detection of poisons and recognition of injurious pigments; the composition and adulteration of foods and beverages; diseased and putrid food; Bacteriology; microscopic examination of Air, Water, Foods, and Beverages.

C. General Hygiene.—Duties of Medical Officer of Health; Nature and Construction of Dietaries; Sanitary arrangements of Houses, Hospitals, Workshops, Factories, Towns, including Interpretation of Plans; Ventilation, Water Supply, Sewerage, Disposal of the Dead; Ætiology, Prophylaxis, and Control of Infectious Diseases; Unhealthy occupations; Practical examination and written report on some selected area or premises.

D. Sanitary Law and Vital Statistics—Laws relating to Public Health, Vaccination, and Registration of births, marriages, and deaths; Methods and results of Vital Statistics, chiefly in relation to the birth, marriage, and death rate of communities.

VII. The Fee for the course of instruction shall be £10, 10s., and for the Examination £5, 5s.

F.—TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1891-92.

Examination.	Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.[1]	Fee.[2]	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant Clerk (Matriculation Office). The Professional Oral Examinations follow immediately after the Written.
General Education,	17th Sept., 1891,	£0 10 0[3]	Wed., 30th Sept., 1891, Arithmetic, 9—11 a.m. Latin, 12 noon—2 p.m. English, 3—5 p.m. Thur., 1st Oct., ,, Elementary Mathematics, ,, Mechanics, ,, French, ,, Fri., 2nd ,, ,, Greek, ,, Logic, ,, Moral Philosophy, ,, Sat., 3rd ,, ,, Higher Mathematics, ,, Natural Philosophy ,, German, ,,
First Professional,	17th Sept., 1891,	5 5 0	Monday, 5th October, 1891, Zoology at 10 a.m. Botany at 12.30 p.m. Tuesday, 6th ,, ,, Chemistry at 10 a.m. Practical Chemistry at 12 noon, 2 p.m., and 4 p.m.
Second Professional,	17th Sept., 1891,	5 5 0	Tuesday, 6th ,, ,, Physiology at 12.30 p.m. Anatomy at 3 p.m.
Third Professional,	17th Sept., 1891,	5 5 0	Wednesday, 7th ,, ,, Regional Anatomy at 10 a.m. Materia Medica at 12.30 p.m. Pathology at 3 p.m.
General Education,	9th March, 1892,	0 10 0[3]	Wed., 23rd March, 1892, Arithmetic, 9—11 a.m. Latin, 12 noon—2 p.m. English, 3—5 p.m. Thur., 24th ,, ,, Elementary Mathematics, ,, Mechanics, ,, French, ,, Fri., 25th ,, ,, Greek, ,, Logic, ,, Moral Philosophy, ,, Sat., 26th ,, ,, Higher Mathematics, ,, Natural Philosophy, ,, German, ,,
First Professional,	9th March, 1892,	5 5 0	Tuesday, 29th March, Zoology at 10 a.m. Botany at 12.30 p.m. Wednesday, 30th ,, Chemistry at 10 a.m. Practical Chemistry at 12 noon, 2 p.m., and 4 p.m.
Second Professional,	9th March, 1892,	5 5 0	Wednesday, 30th ,, Physiology at 12.30 p.m. Anatomy at 3 p.m.
Third Professional,	9th March, 1892,	5 5 0	Thursday, 31st ,, Regional Anatomy at 10 a.m. Materia Medica at 12.30 p.m. Pathology at 3 p.m.
Final Professional,	17th May, 1892,	5 5 0	Mon., 13th June (*Clinical Examinations begin*). Fri., 10th July (*Operative Surgery Examination begins*). Monday, 11th July, Materia Medica at 10 a.m. Medical Jurisprudence at 1 p.m. Tuesday, 12th July, Practice of Medicine ,, Pathology ,, Wednesday, 13th July, Surgery ,, Midwifery ,, The Oral Examinations will begin about the 14th July.

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

[2] In the event of a Candidate being rejected in a Professional Examination, he may be admitted once to re-examination without payment of further examination fee, but for a second and for each subsequent re-examination (if any) a Special Fee of £2, 2s. will be charged.

[3] Payable by Candidates who, at the date of their first enrolment for the examination, are not Matriculated Students of the University.

G.—GRADUATION.

The terms for conferring Medical and Surgical Degrees in Session 1891-2 are 19th November, 1891 ; 11th February, 1892 ; 29th April, 1892 ; and 28th July, 1892.

Candidates proceeding to Graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict. Ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of Graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, or Sponsio Academica, formerly required to be taken and subscribed by every Candidate on Graduation :—

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

H. REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 1 George Square, Edinburgh Fee £5. Additional Qualifications, 5s. each. Forms of application may be had from the Assistant Clerk (Matriculation Office).

LIST OF EXAMINING BODIES WHOSE EXAMINATIONS FULFIL THE CONDITIONS OF THE MEDICAL COUNCIL AS REGARDS PRELIMINARY EDUCATION.

N.B.—The Certificates of these Bodies admit to matriculation and study in the University of Glasgow; but Candidates for Degrees must conform to the regulations of the University as laid down under A, page 146.

I.—Universities in the United Kingdom.

University of Oxford.—(1) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (2) Senior Local Examinations; Certificate to include Latin and Mathematics. (3) Responsions. (4) Moderations. (5) Examination for a Degree in Arts.

University of Cambridge.—(6) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (7) Senior Local Examinations; Certificate to include Latin and Mathematics. (8) Higher Local Examinations. (9) Previous Examination. (10) Examination for a Degree in Arts.

University of Durham.—(11) Examination for Certificate of Proficiency. (12) Examination for Students at the end of their first year. (13) Examination for a Degree in Arts.

University of London.—(14) Matriculation Examination. (15) Preliminary Scientific (M.B.) Examination. (16) Examination for a Degree in Arts or Science.

Victoria University.—(17) Preliminary Examination; Latin to be one of the subjects. (18) Entrance Examination in Arts, to include all the subjects required.

University of Edinburgh.—(19) Local Examinations (Junior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (20) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (21) Preliminary Examination for Graduation in Science or Medicine and Surgery. (22) Examination for a Degree in Arts.

University of Aberdeen.—(23) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (24) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (25) Preliminary Examination for Graduation in Medicine and Surgery. (26) Examination for a Degree in Arts.

UNIVERSITY OF GLASGOW.—(27) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (28) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (29) Preliminary Examination for Graduation in Medicine and Surgery. (30) Examination for a Degree in Arts.

UNIVERSITY OF ST. ANDREWS.—(31) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (32) Local Examinations (Junior Certificate), to include all the subjects required. (33) Preliminary Examination for Graduation in Medicine and Surgery. (34) Examination for a Degree in Arts. (35) Examination for the LL.A. Certificate; Certificate to include all the Subjects required by the Council.

UNIVERSITY OF DUBLIN.—(36) Public Entrance Examination. (37) General Examination at end of Senior Freshman year. (38) Examination for a Degree in Arts.

QUEEN'S UNIVERSITY IN IRELAND.—(39) Local Examinations for Men and Women; Certificate to include all the subjects required by the General Medical Council. (40) Entrance or Matriculation Examination. (41) Previous Examination for B.A. Degree. (42) Examination for a Degree in Arts.

ROYAL UNIVERSITY OF IRELAND.—(43) Matriculation Examination; (44) Examination for a Degree in Arts.

OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD.—(45) Certificate to include the following subjects, an adequate knowledge of English Grammar and Orthography, as shown in the course of the Examination, to the satisfaction of the Examiners, being held as conforming to the requirements of the Medical Council in regard to those subjects:—Arithmetic, including Vulgar and Decimal Fractions; Algebra, including Simple Equations; Geometry, including the first two books of Euclid; Latin, including Translation and Grammar. Also one of these optional subjects:—Greek, French, German.

II.—Other Bodies named in Schedule (A) *to the* MEDICAL ACT, 1858.

APOTHECARIES' SOCIETY OF LONDON.—(46) Examination in Arts.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH.—(47) Preliminary (combined) Examination in General Education, conducted by the Educational Institute of Scotland.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.—(48) Preliminary Examination in General Literature.

ROYAL COLLEGE OF SURGEONS IN IRELAND.—(49) Preliminary Examination; Certificate to include Mathematics.

III.—Examining Bodies, in the United Kingdom, not included in Schedule (A) *to the* MEDICAL ACT (1858).

COLLEGE OF PRECEPTORS.—(50) Examination for a First-Class Certificate, or Second-Class Certificate of First or Second Division, Algebra, Geometry, Latin, and a Modern Language, having been taken.

QUEEN'S COLLEGE, BELFAST.—(51) Matriculation Examination.

QUEEN'S COLLEGE, CORK.—(52) Matriculation Examination.

QUEEN'S COLLEGE, GALWAY.—(53) Matriculation Examination.

INTERMEDIATE EDUCATION BOARD OF IRELAND.—(54) Junior Grade Examination. (55) Middle Grade Examination. (56) Senior Grade Examination. Certificate in each case to include all the subjects required by the General Medical Council.

ST. DAVID'S COLLEGE, LAMPETER.—(57) Responsions Examination, to include all the subjects required.

EDUCATIONAL INSTITUTE OF SCOTLAND.—(58) Preliminary Medical Examination.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—(59) Preliminary and Minor Examinations *pro tanto.*

PHARMACEUTICAL SOCIETY OF IRELAND.—(60) Preliminary Examination *pro tanto.*

SCHOOLS LEAVING CERTIFICATES.—(61) Three Grades.

IV.—Indian, Colonial, and Foreign Universities and Colleges.

UNIVERSITY OF CALCUTTA.—(62) Entrance Examination; Certificate to include Latin.

UNIVERSITY OF MADRAS.—(63) Entrance Examination; Certificate to include Latin.

UNIVERSITY OF BOMBAY.—(64) Entrance Examination; Certificate to include Latin.

CEYLON MEDICAL COLLEGE.—(65) Preliminary Examination (Primary Class).

UNIVERSITY OF M'GILL COLLEGE, MONTREAL.—(66) Matriculation Examination.

UNIVERSITY OF BISHOP'S COLLEGE, MONTREAL.—(67) Matriculation Examination.

UNIVERSITY OF TORONTO.—(68) Matriculation Examination.

UNIVERSITY OF TRINITY COLLEGE, TORONTO.—(69) Matriculation Examination.

UNIVERSITY OF QUEEN'S COLLEGE, KINGSTON.—(70) Matriculation Examination.

UNIVERSITY OF VICTORIA COLLEGE, UPPER CANADA.—(71) Matriculation Examination.

WESTERN UNIVERSITY OF ONTARIO.—(72) Entrance Examination in Medicine; Certificate to include all the subjects required for registration.

COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.—(73) Preliminary Examination; Certificate to include all the subjects required for registration.

UNIVERSITY OF MANITOBA.—(74) Previous Examination.

UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—(75) Matriculation Examination.

UNIVERSITY OF MOUNT ALLISON COLLEGE, NEW BRUNSWICK—(76) Examination for a Degree in Arts.

UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—(77) Matriculation Examination. (78) Responsions.

UNIVERSITY OF HALIFAX, NOVA SCOTIA.—(79) Matriculation Examination.

DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX, NOVA SCOTIA.—(80) Matriculation and Sessional Examinations.

PROVINCIAL MEDICAL BOARD OF NOVA SCOTIA—(81) Matriculation Examination.

UNIVERSITY OF CALIFORNIA.—(82) Examination in Department of Letters.

UNIVERSITY OF MELBOURNE.—(83) Matriculation Examination.

UNIVERSITY OF SYDNEY.—(84) Matriculation Examination.

UNIVERSITY OF ADELAIDE.—(85) Matriculation Examination or its substitute, the Senior Public Examination; (86) Junior Public Examination; Certificate to include all the subjects required for registration.

TASMANIAN COUNCIL OF EDUCATION.—(87) Examination for the Degree of Associate of Arts; Certificate to include Latin and Mathematics.

UNIVERSITY OF THE CAPE OF GOOD HOPE.—(88) Matriculation Examination. (89) Examination for a Degree in Arts.

UNIVERSITY OF OTAGO.—(90) Preliminary Examination.

UNIVERSITY OF NEW ZEALAND.—(91) Entrance Examination.

CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—(92) Voluntary Examinations. Certificate to include all the subjects required by the General Medical Council.

CODRINGTON COLLEGE, BARBADOES.—(93) English Certificate for Students of two years' standing, and Latin Certificate or "Testamur."

GERMANY AND OTHER CONTINENTAL COUNTRIES.—(94) Gymnasial Abiturienten-Examen, and other corresponding Entrance Examinations to the Universities.

GYMNASIA OF THE CIRCUIT OF DORPAT.—(95) Examinations of Maturity.

5.—GRADUATION IN LAW.

Degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a Degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal.

The conditions on which the Degree of LL.B. is now conferred are regulated by ordinance of the Universities Commissioners, No. 75, the principal provisions of which are the following:—

I. No one shall hereafter be admitted as a candidate for the Degree unless he be a graduate in Arts of a recognized University.

II. The course of study in Law necessary for the degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz.:—

1. CIVIL LAW, - - - - - -	During Courses of not less than Eighty Lectures each.
2. LAW OF SCOTLAND, - - - - -	
3. CONVEYANCING, - - - - - -	
4. PUBLIC LAW,- - - - - - -	During Courses of not less than Forty Lectures each.
5. CONSTITUTIONAL LAW AND HISTORY, -	
6. MEDICAL JURISPRUDENCE, - - -	

III. No one shall be admitted as a candidate for this Degree in any University unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *viva voce*, on each of the six departments of Law above specified.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their acquirements in the two departments of Public Law and Constitutional Law and History.

VI. The Examiners for Degrees in Law in each University shall be six in number, and there shall always be one Examiner specially qualified for each one of the six departments above specified; and where the Professors of the Faculty of Law in any University do not furnish the requisite number of Examiners duly qualified, the number shall be made up by the appointment of additional Examiners by the University Court; provided always that no person shall be appointed an additional Examiner in any University unless he be a professor in the Faculty of Law in a *Scottish* University, or shall have obtained the Degree of Bachelor of Laws, in accordance with the provisions of this ordinance.

VII. Each candidate for the degree of Bachelor of Laws shall pay a Fee of Five Guineas in respect of his examination for the Degree.

The following Regulations for the Degree of Bachelor of Law (B.L.) were sanctioned by Her Majesty, by order in Council, dated 6th August, 1874:—

VIII. Besides the Degree in Law specified in the said Ordinance there shall in future be in the University of Glasgow a second Degree in Law granted after examination, namely, the Degree of Bachelor of Law (B.L.).

IX. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law in the University of Glasgow unless he be a Graduate in Arts, qualified as prescribed in Section I. (*supra*), or unless he shall have passed a satisfactory examination in Latin, and in any three of the following subjects (Logic or Mathematics being always one of the three), viz.: (*a*) Greek, with the alternative of French or German, (*b*) Logic, (*c*) Moral Philosophy, (*d*) Mathematics, (*e*) Natural Philosophy, and (*f*) English Literature; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners.

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in section II., in each of the three departments of Civil Law, Law of Scotland, and Conveyancing, and in any one of the other three departments of Law mentioned in that section; provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a Candidate for the said Degree unless two academical years of his course of study in Law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XI. The Examiners for the Degree of B.L. in the University of

Glasgow shall be the Professors of the Faculty of Law, together with two additional Examiners appointed by the University Court, from among Graduates in Law of any of the Universities of Scotland, provided always that for six years after the approval of this alteration on the Ordinance by Her Majesty in Council, any one shall be eligible as Examiner who is a Member of the General Council of any of the Universities of Scotland. Each of such additional Examiners shall hold office for the term of three years.

XII. The fee to be paid by each candidate for the Degree of Bachelor of Law in the University of Glasgow shall be Three Guineas.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to Graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said Degree.

SUBJECTS OF EXAMINATION.

Preliminary Examination for the Degree of B.L.

ARTS SUBJECTS.—The Examination in the Arts Subjects under section IX. will be the same as that for the Degree of M.A.

FRENCH.—*Montesquieu's* Esprit des Lois, Books i. to v. ; *Voltaire's* Charles XII. ; *Moliere's* Le Bourgeois Gentilhomme ; *Victor Hugo*, First Division of Selections (Poésie) contained in L'Œuvre Complète de Victor Hugo (Extraits), Paris, Hetzel-Quantin, 1885. Some knowledge of the matter of the books prescribed as well as of their text is required. A passage from a work not prescribed may also be set. Moderate proficiency in French Prose Composition is required. Questions on French Grammar, Philology, and History will also be set. For these subjects reference may be made to *Saintsbury's* Primer of French Literature, *Brachet's* Historical French Grammar, or *Clapin's* Primer of French Philology, and *Charlotte Yonge's* Primer of French History.

GERMAN.—*Von Ihering*, Der Kampf um's Recht ; *Schiller*, Die Belagerung von Antwerpen ; *Lessing*, Minna von Barnhelm ; *Gœthe*, Hermann und Dorothea. Translation, Composition, and Grammatical and Historical Knowledge will be required, as in French. Reference may be made to *Gostwick and Harrison's* German Literature, or *Selss'* Outline of the Literature of Germany ; and *Sime's* History of Germany (Macmillan's Hist. Course for Schools).

Law Examinations for Degrees of LL.B. and B.L.

The examinations for LL.B. and B.L. in Session 1891-92 will embrace the following books and subjects, viz. :—

In Civil Law.—Justinian's Institutes, with Moyle's Introduction, Commentary, etc.

In the Law of Scotland.—Bell's Principles of the Law of Scotland, and the Professor's Lectures.

In Conveyancing.—Professor A. M. Bell's Lectures on Conveyancing. The constitution, transmission, and extinction of Heritable Rights according to the Law of Scotland.

In Public Law.—(1) History and Philosophy of Law; (2) Public International Law; and (3) Private International Law. Authorities recommended — Maine's Ancient Law; Ahrens' Cours de Droit Naturel, or Lorimer's Institutes of Law and Law of Nations, or Trendelenburg's Naturrecht; Hall's or Woolsey's International Law, or Twiss' Law of Nations, or Heffter's Droit International de l'Europe, together with the prize cases reported in Tudor's Leading Cases in Mercantile and Maritime Law, or Bluntschli's Völkerrecht, together with the above cases; the Eighth Volume of Savigny's System translated by Guthrie.

In Constitutional Law and History.—(1) History of the Constitution during the 16th and 17th centuries; (2) Existing Constitutional Law. Authorities recommended—Hallam's Constitutional History of England, or Taswell-Langmead's English Constitutional History; Central Government, by Traill; The Electorate and the Legislature, by Spencer Walpole (English Citizen Series); Leading Cases in Constitutional Law, by Thomas; Dicey's Law of the Constitution.

In Medical Jurisprudence.—Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Poisoning by Arsenic; Examination of Blood Stains; Legitimacy; Insanity. (Text-Book, Principles of Forensic Medicine, by Guy and Ferrier.)

In Moral Philosophy.—The subjects of examination for the Degree of M.A. Those who have not attended the Class of Moral Philosophy will be examined in Sidgwick's Methods of Ethics, and will also be expected to show a general knowledge of the history of Ethical Philosophy in modern times.

In Political Economy.—The General Principles of Political Economy, and the 2nd Book of Mill's Political Economy.

No candidate for the Degree of B.L. is admitted to an Examination in Law Subjects until he has passed in all the subjects of the Preliminary Examination.

By a regulation of the Faculty of Law not fewer than two subjects in Law must be taken up at one time by each candidate for the degree of LL.B. or B.L.

For dates of Examinations and times for giving in names, see next page.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1891-92.

Fee.	Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.[1]	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set. October—November, 1891.	Dates of Written Examinations and Hours at which the different Papers will be set. March—April, 1892.	Examination.
£1 1s. on each entry for Examination, and balance, if any, before Graduation. Total Fees: LL.B. £5 5s., B.L. £3 3s.	17th Sept. or 9th Mar.,	French,	Thurs., 1st Oct., 1891, 3-5 p.m.	Thurs., 24th Mar., 1892, 3-5 p.m.	PRELIMINARY FOR B.
		German,	Sat., 3rd ,, ,, ,,	Sat., 26th ,, ,, ,,	
		English Literature,	Sat., 31st ,, ,, 10 a.m.	Sat., 9th Apr., ,, 10 a.m.	
	1st Oct. or 10th Mar.,	Latin,	Mon., 2nd Nov., ,, 10-12, 1-3, and 4-6 p.m.	Mon., 11th ,, ,, 10-12, 1-3, and 4-6 p.m.	
		Greek,	Tues., 3rd ,, ,, 10-12 and 1-3 p.m.	Tues., 12th ,, ,, 10-12 and 1-3 p.m.	
		Logic,	Wed., 4th ,, ,, 10 a.m.	Wed., 13th ,, ,, 10 a.m.	
		Moral Philosophy,	Thurs., 5th ,, ,, ,,	Thurs., 14th ,, ,, ,,	
		Mathematics,	Fri., 6th ,, ,, 11-2 and 3-6 p.m.	Fri., 15th ,, ,, 11-2 and 3-6 p.m.	
		Natural Philosophy,	Sat., 7th ,, ,, 10-1 and 2-5 p.m.	Sat., 16th ,, ,, 10-1 and 2-5 p.m.	
	1st Oct. or 10th Mar.,	Scots Law,	Mon., 19th Oct., ,, 9 a.m.	Wed., 6th ,, ,, 9 a.m.	LAW.
		Public Law,	,, ,, ,, ,, 2 p.m.	,, ,, ,, ,, 2 p.m.	
		Civil Law,	Tues., 20th ,, ,, 9 a.m.	Thurs., 7th ,, ,, 9 a.m.	
		Constitut. Law & Hist.,	,, ,, ,, ,, 2 p.m.	,, ,, ,, ,, 2 p.m.	
		Conveyancing,	Wed., 21st ,, ,, 9 a.m.	Fri., 8th ,, ,, 9 a.m.	
		Medical Jurisprudence,	,, ,, ,, ,, 2 p.m.	,, ,, ,, ,, 2 p.m.	
		Moral Philosophy,	Thurs., 5th Nov., ,, 10 a.m.	Thurs., 14th ,, ,, 10 a.m.	
		Political Economy,	,, ,, ,, ,, ,,	,, ,, ,, ,, ,,	

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled to examination. A Candidate is not held to be enrolled for the examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

6.—GRADUATION IN DIVINITY.

Degree of Bachelor of Divinity.

This Degree, having been revived in the University by authority of the University Court and Senatus Academicus, is conferred on such qualified candidates as have satisfied the Members of the Divinity Faculty of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

The examinations in the First Department are held in November (12th and 13th November, 1891) ; those in the Second Department, in April (7th and 8th April, 1892).[1]

The scheme of examination for Session 1891-2 is as follows :—

I. First Department—

(*a*) *Hebrew.*—(1) Genesis xxvi-l., Text and Exegesis ; (2) Isaiah xv.-xxxv., and Psalms xix.-xli., Text, Exegesis, and Introduction ; (3) Portions of unpointed Hebrew to be punctuated ; (4) Translations from English into Hebrew.

Books that may be used :—

Spurrell's Notes on the Hebrew Text of the Book of Genesis (Clarendon Press, 1887) is particularly recommended. Commentaries on Genesis are therein mentioned. The Commentaries of Cheyne, Delitzsch, Perowne; Bleek, Introduction to the Old Testament. Candidates will be expected to know Müller's Outlines of Hebrew Syntax, but they will not be examined on Pentateuch Introduction.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Gospel according to Luke. (2) Exegesis of Mark i. 1-x. 45, with critical comparison of the parallel passages in Matthew and Luke. (3) Exegesis of the Epistle to the Galatians and of the Epistle to the Philippians.

Books which may be consulted :

(1) and (2) The relative Commentaries of Godet, Meyer, de Wette, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien. (3) The Commentaries of Meyer, Ellicott, or Lightfoot.

(*c*) *Apologetics.*—Theism ; Miracles.

Books which may be consulted :

The relative sections of general treatises on Apologetics or Dogmatics [see II., below] ; Flint, Tulloch, Purinton on Theism ; Mozley on Miracles ; Steinmeyer, Miracles of our Lord.

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[1] Candidates who, under the old regulations, have already passed in Hebrew and Biblical Criticism may present themselves for examination in Divinity and Church History, and *vice versa*.

II. SECOND DEPARTMENT—

(*a*) *Divinity.*—Doctrine of the Image of God in man; Doctrine of Sin; Biblical Theology—Pauline Doctrine of Sin, of Law, and of Justification.

The following books may be consulted:

The Treatises on Dogmatics by Martensen, Oosterzee, Kahnis, Lipsius, Dorner, Biedermann, Shedd; Hodge, Systematic Theology; Strong, Systematic Theology; Laidlaw, Bible Doctrine of Man; Keerl, Der Mensch das Ebenbild Gottes; Müller, Christian Doctrine of Sin; Tulloch, Christian Doctrine of Sin; Schmid, Weiss, Oosterzee, on Biblical Theology of the New Testament; Reuss, History of Christian Theology in the Apostolic Age; Pfleiderer, Paulinism.

(*b*) *Church History.*—Period of the General Councils from A.D. 325 to A.D. 879.

The following are among the books which may be consulted: Hefele, History of the Councils; General Church Histories by Neander, Schaff, Robertson.

(*c*) *Biblical Criticism.*—(1) Textual Criticism. (2) Hermeneutics. Books which may be consulted:

(1) Davidson, Biblical Criticism; Tregelles, Treatise in Horne's Introduction, vol. IV.; Scrivener, Plain Introduction to the Criticism of the New Testament (third edition); Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, vol. II.; Ernesti, Institutio Interpretis; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for Session 1892-93 will be as follows:—

I. FIRST DEPARTMENT—

(*a*) *Hebrew.*—(1) Genesis, i.–xxv., Text and Exegesis; (2) Isaiah xl.–liii., and Psalms xlii.–lviii., Text, Exegesis, and Introduction; (3) Portions of unpointed Hebrew to be punctuated; (4) Translations from English into Hebrew.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Acts of the Apostles; (2) Exegesis of Matthew iv. 17–xvi. 20, with critical comparison of the parallel passages in Mark and Luke; (3) Exegesis of the Epistles to the Corinthians.

(*c*) *Apologetics.*—Ideas of Religion and Revelation; Messianic Prophecy.

II. SECOND DEPARTMENT—

(*a*) *Divinity.*—Doctrine of the Trinity; Subjective Soteriology; Biblical Theology—The Synoptic Gospels.

(*b*) *Church History.*—Ante-Nicene Period.

(*c*) *Biblical Criticism.*—(1) Textual Criticism; (2) Hermeneutics.

All Graduates in Arts of any of the Universities of Scotland, or of England, or of Ireland, or of a Colonial University whose Degrees shall for this purpose have been specially recognized by the University Court, who have studied at this University during at least two sessions, and "who have gone through a due course of Theological training, whether in this University or in any other Theological School in Scotland or England," may become candidates for the Degree.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their Course in Arts, may present themselves for examination in the First Department.

Forms of application for examination may be obtained from the Assistant Clerk (Matriculation Office). These forms, when filled up, must be forwarded by the Candidates to the Professor of Divinity, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant Clerk (Matriculation Office), on or before 3rd November or 1st April respectively. A fee of £1 11s. 6d. is payable on enrolment for each department.

Regulations for the Honorary Degree of Doctor of Divinity.

This Degree is now conferred in accordance with the following Regulations, which were adopted by the Senate on 28th February and 11th April, 1889 :—

I. At the commencement of every session a committee shall be appointed, to be called the Committee on the Degree of D.D., consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and one Professor from each of the other Faculties.

II. It shall be the duty of this Committee to select persons to be recommended to the Senate for the Degree ; but the Committee shall not entertain private or personal applications.

III. The Committee shall present a report embodying its recommendations to the Senate at the first meeting in March in each year.

IV. In the case of every person recommended for the Degree the report shall contain a statement of the grounds on which the recommendation is founded, showing :—

1. Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
2. Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.
3. Whether, (*a*) being a Bachelor of Divinity of eight years' standing, he has passed a higher examination in any three of the six

subjects embraced in the examination for the Degree of B.D.; or, (*b*) being a Bachelor of Divinity of fifteen years' standing, he has published a contribution of merit to Theological Literature.

V. No resolution to confer the Degree of D.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

The University dues for the Degree of D.D. shall be, as heretofore, Twenty Pounds; under deduction of the dues previously paid on examination for the Degrees of M.A. and B.D.

7.—HONORARY DEGREE OF DOCTOR OF LAWS.

The following resolutions regulating the procedure of the Senate in conferring the honorary Degree of LL.D. were adopted by the Senate on 7th March and 11th April, 1889:—

1. At the commencement of every Session a Committee shall be appointed, to be called the Committee on the Degree of LL.D., consisting of the Principal, three Professors from the Faculty of Arts, and two Professors from each of the other Faculties.

2. It shall be the duty of this Committee to select persons to be recommended by the Senate for the Degree; but the Committee shall not entertain private or personal applications.

3. The Committee shall present to the Senate a report embodying its recommendations at the first meeting in March in each year.

4. In the case of every person recommended for the Degree, the report shall contain a statement of the grounds on which the recommendation is founded, showing:—

(*a*) Whether he is an alumnus of this or any other University, and whether he already holds any Academical Degree.

(*b*) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.

(*c*) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

5. No resolution to confer the Degree of LL.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

Academic Dress.

GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the Graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by Graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.[1]

The Hoods for the different Degrees are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Black Velvet, lined with Gold Coloured Silk.

B.L., Black Silk, bordered inside with Venetian Red Silk (colour of Clove Carnations).

LL.B., Black Silk, lined with Venetian Red Silk.

LL.D., Black Velvet, lined with Venetian Red Silk.

M.B. and C.M., Black Cloth, lined with Scarlet Silk.

M.D., Black Silk, lined with Scarlet Silk.

B.D., Black Silk, bordered with Black Velvet, lined with Red Purple Silk.

D.D., Black Velvet, lined with Black Silk, or (if the Graduate be Master of Arts) with Red Purple Silk.

UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns ; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to Academic dress ; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the Academical Dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper Academic Dress for students in Arts is the red gown.

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[1] The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

Ceremony of Graduation.

The following are the regulations adopted by the Senate :—

All Degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for Graduation are required to appear in black gowns with the hoods appropriate to their degrees ; those who are already graduates, in the costume proper to their previous degree.

VII.—BURSARIES, SCHOLARSHIPS, &c., PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, &c., by a "preference" the Senate understand, in every instance, a preference *cæteris paribus*.

A. BURSARIES (ARRANGED ACCORDING TO FACULTIES).

BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John,	3	4	£15
Black,	2	3	£42
Boyd,	1	3	£11
Boyd and Sanders,	1	3	£13 16/8
Brown or Ettles,	2	3	£21
Dundonald,	6	2	£41 2/6
Gilhagie,	1	4	£6 6/
Hastie,	2	3	£25
Logan,	1	3	£16
Lorimer,	4	3	£25 & £20
Lumsden,	1	4	£15
Macfarlane,	1	3	£36
Marshall,	1	4	£17
Muir,	1	3	£36
Muir Divinity,	2	2	£25
Notman,	1	3	£17
Ross, John, jun.,	1	3	£36
Struthers,	1	3	£13 6/8
Wilson,	1	3	£13 6/8
BURSARIES IN THE FACULTY OF LAW.			
Merchants' House,	1	3	£25
Walkinshaw-Young,	1	2	£18
Major Young's Fund,	2	6 and 2	£20
BURSARIES IN THE FACULTY OF MEDICINE.			
Brisbane,	1	4	£42
Davidson,	1	3	£40
Malcolm Kerr (Chem.),	1	3	£18
Logan,	1	4	£16
Lorimer,	4	3	£25 & £20
Macarthur,	1	2	£20
Macfarlane,	1	3	£40
Mackintosh,	1	1	£30
Marshall,	1	4	£17
Merchants' House,	2	4	£25
Monteith, John,	2	2	£20
Rainy,	2	2	£20
Walton,	1	4	£36
Weir, Andrew,	1	1	£18

BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend each session two at least of the classes embraced in the curriculum for M.A.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, James,	3	4	£11
Adamson,	1	3 or 4	£20
Angus and Mearns Benevolent Society,	2	4	£15
Barbour (Kilbarchan),	1	3	£16
Biggart Memorial,	10	4	£25
Black,	2	4	£21
Blackquarry School,	1	4	£13
Brand,	3	4	£24
Brown,	1	4	£6 13/4
Brown, Ebenezer,	1	3	£37
Brown-Paton,	2	3	£16
Browne (Ayrshire),	2	4	£20
Buchanan,	2	3	£13
Clark, John (Mile-end),	22	4	£30
Cowan,	1	2	£35
Craig,	1	4	£25
Craig, Archibald,	1	2	£9
Crawfurd (or Bishop's),	1	4	£12
Davidson,	1	3	£40
Duncan's Bute,	2	4	£35
Dundonald,	8	4	£40
Elder,	2	2	£50
Ewing, James,	4	4	£20
Forfar,	4	4	£30
Foundation,	4	4	£10
Fullarton of Overton,	5	2	£15
General Council,	5	3 or 2	£20
Gilchrist,	1	3	£8
Glasgow City Educational Endowm'ts,	20	4 or 2	£25
Grant, George,	1	3 or 4	£45
Grant, George, jun.,	1	4	£45
Hannay,	3	3	£15
Hastie,	1	4	£25
Howison,	1	4	£9
Hutchesons' Educational Trust,	20	4	£20
Hyndford,	1	4	£6 13/4
Jaffrey, John Ferguson,	1	2	£34
Kerr, Malcolm (Nat. Phil.),	1	3	£18
Laing,	1	3	£20
Leadbetter,	1	4	£9
Leyden, John,	1	3	£13
Lochhead, James,	1	3	£16
Lochhead and Mitchell,	2	4	£32
Lorimer (4 Phil. 4 Math.),	8	3	£25 & £20
Lusk,	1	3	£33
M'Crie,	4	4	£25
M'Culloch,	1	4	£15 10/
MacDougall,	3	3	£33
M'Ewen, Malcolm (Arts or Science),	1	4	£16
MacGrouther,	2	4	£20 & £15
Maitland Club,	1	—	—

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Marshall Trust,	10	5	£30
Menzies,	4	4	£45
Merchants' House,	1	4	£25
Metcalfe,	4	2	£25
Monteith,	3	3	£14
Muir (Civil Engineering),	2	1	£12 10/
Muir (Mathematics, Senior),	1	1	£18
Muir (Mathematics, Junior),	1	2	£9
Orr-Ewing Dumbartonshire,	16	4	£25
Paterson, James,	1	4	£23
Patrick,	2	2	£80 and £40.
Perthshire Society,	1	3	£25
Pollock,	3	3	£40
Ramsay-Walker,	2	4	£12
Ross,	1	4	£4 3/4
Scott,	3	4	£25
Stevenson of Dalry,	2	4	£35
Stewart,	3	4	£15
Stirlingshire Society,	1	4	£25
Thomson, James (Philosophical),	1	2	£11
BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.			
Ardkinglass,	1	8	£9 10/
Buchanan (Bellfield),	2	7	£50
Exchequer,	6	6	£10 & £13 6/8
Hamilton,	6	6	£20 & £25
Leighton,	2	7	£9
Williams,	4	3 or 4	£40
BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.			
Lamb,	1	—	£12
BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.			
Macdonald,	2	4	£14
BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.			
Armagh,	3	3	£25
Old Library,	1	4	£11 2/2¾
BURSARIES IN ANY FACULTY.			
Ayrshire Society,	4	3	£15
Celtic Society (Campbell),	1	1 or more	£5
Denny,	4	4	£30
Dumfriesshire Society,	2	4	£15
Ferguson, James,	2	2	£80
Forrest,	5	5 or less	£22
Gibson, John,	2	4	£20
Kintyre (Ker),	1	3	£20
Kintyre (Alexander Love),	1	4	£11
M'Kechnie,	2	4	£35
Shearer,	3	3	£30
Smith,	2	1 or more	£9
Taylor,	2	4 or 5	£12

B.- BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—Three in number, founded by the Rev. James Adam, minister of Cumbrae, who died in 1830. They are appropriated to students in the Gown Classes, and tenable for four years. In appointing to one of the Bursaries, preference is given to the kindred of the founder, and in appointing to another to students of the name of Adam. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae. Value, about £11 per annum each. (One vacancy.)

Bursars—Norman Macleod Wright, 1888; Charles W. Hutcheson, 1890.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. They are open to competition to students in Theology of the first year; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. In appointing to one of the Bursaries, there is a preference, *cæteris paribus*, to the kindred of the founder, and to students of the name of Adam or Dollar. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years. Value, £15 to each Bursar.

Bursars—Andrew Campbell, 1889 (1888); James M. Binnie, M.A., 1890; Robert J. Paul, M.A., 1890.

ADAMSON BURSARY (*Arts*).—Founded by the Rev. David Adamson, minister of Fintry, in 1674, is appropriated to a student in Philosophy, son of a freeman in one of the seven Incorporate Trades of Stirling. It is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500. (Vacant.)

ANGUS AND MEARNS BENEVOLENT SOCIETY'S BURSARIES (*Arts*).—Two in number, founded in 1860 by the Glasgow Angus and Mearns Benevolent Society. Value, £15 per annum each. They are tenable for four years in the Arts Classes, and are open only to natives, or sons of natives, of the counties of Forfar and Kincardine, who are desirous of obtaining a University education, but whose circumstances are such as to render them unable to accomplish it without the aid of a Bursary. (Both vacant.)

Applications to be made, not later than 1st September in each year, to Mr. Stuart Spence, 52 Virginia Street, Glasgow.

ARDKINGLASS BURSARY (*Arts and Theology*).—Founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader had by his Will set aside for pious uses. Tenable for eight years—five in Languages and Philosophy, and three in Divinity. Patron, Mr. Geo. F. W. Callander, of Ardkinglass and Craigforth. Bursar to be found duly qualified by Principal and Masters; and to take the degree of M.A. before passing to Divinity. Value, £9 10s. (Vacant.)

Armagh Bursaries (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commissioners, of date 17th May, 1862, these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed. On each vacancy, the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The Bursaries are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. One Bursar is appointed at the commencement of each session, and no appointment is made of more than one Bursar in the same year.

Names of candidates to be sent in to the Clerk of Senate on 1st December in each year.

Bursar—John Lindsay, M.A., 1889.

Glasgow Ayrshire Society's Bursaries (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of Bursaries in the University of Glasgow, and invested for that purpose. The Bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a Bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. James Graham Girvan, 186 West George Street, Glasgow.

Bursars—[1] Hugh Galt, 1888; [1] John Pollock, 1888; Barclay Wiggins, 1890; Adam Howat, 1890.

Barbour Kilbarchan Bursary (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a Scholarship for the Board School of Kilbarchan, Renfrewshire. The Bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary examination. (Vacant.)

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[1] Vacant through lapse of time.

BIGGART MEMORIAL BURSARIES (*Arts*).—Ten in number. Value, £25 per annum each. Founded in 1876 by Mr. Thomas Biggart, of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The Bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The Bursaries are tenable for four years.

The Bursary Fund consists of the sum of £6,000, invested in real estate in Scotland, and the surplus revenue may be applied to prolong the tenure of any of the Bursars for a fifth year, or to the granting of additional Bursaries on the same conditions as are applicable to the others.

The Bursary is payable by equal moieties on the second day of February and at the close of the Winter Session; and the Bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognized by that Church as an accepted student, pursuing his studies with a view to the ministry therein.

Bursars—[1] Alexander Carruthers, 1887; [1] William Clow, 1887; Robert M. Buchanan, 1888; Joseph M. B. M'Intyre, 1888; Thomas Wardrop, 1888; William C. Miller, 1889; Andrew Patrick, 1889; Andrew M'Lachlan, 1889; Thomas Anderson, 1890; Samuel H. M'Ewing, 1890; James Mackenzie, 1890.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two Bursaries in Arts, each of the annual value of £20 or thereby. The Bursaries are open to competition to students entering on their first session in the University; and the Bursars are required to attend the qualifying courses for a Degree in Arts.

Bursars—[1] David Baird, 1887; John S. Thomson, 1890.

[1] Vacant through lapse of time.

Black Bursaries (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The Bursaries are entrance Bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—James W. Macdonald, M.A., 1889; Hugh Y. Arnott, M.A., 1890.

Blackquarry School Bursary (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £13).

Bursar—George M'Pherson, 1889.

Boyd Bursaries (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years. Value, £5 10s. per annum each. The patrons of two were the members of the City Council; and the appointment of the third was vested in the Merchants' House of Glasgow. Preference to burgesses' sons, particularly of the name of Boyd.

By ordinance of the Universities Commissioners, of date 17th May, 1862, the two Bursaries in the gift of the Town Council were conjoined into one, tenable for three years; the Bursar to be M.A. The Bursary in the gift of the Merchants' House is now combined with the Sanders Bursary—(See below).

Bursar—(Town Council)—Archibald B. Scott, M.A., 1889.

Boyd and Sanders Bursary (*Theology*).—The Boyd Bursary (see above), value, £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. There is a preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop. When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October.

Bursar—Robert L. Boyd, 1889.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

Bursars—[1]Archibald M'Lean, 1887; James Orr, 1889 (1888); James Ferguson, 1890.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane, of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the College present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

Preference is given to the kin of the founder.

Bursar—John Paterson, M.A., 1888.

BROWN BURSARY (*Arts*).—Founded in 1697 by Colonel Brown, of Maryland. Tenable for four years. Value, £5 per annum (increased to £6 13s. 4d. by addition from Students' Bursary Fund). The Patrons are the Principal and Professors of the University, who now award it by competition.

Bursar—[1]John M. Manford, 1888 (1887).

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles, of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *cæteris paribus,* to such as can speak Gaelic. The Bursaries are tenable for three years.

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[1] Vacant through lapse of time.

Bursars—[1]William M. Campbell, M.A., 1888; William Metcalfe, M.A., 1889.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a Bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the Bursary as they may see fit. The Bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the Preliminary Examination in Latin and Greek, and in consequence of having so passed attended the Senior Classes of those subjects. It is tenable for three years.

Bursar—Charles W. Stewart, 1889.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £20, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne, of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The Bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

Bursars—[1]Hugh Cowan, 1887; Thomas Hunter, 1889.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The Bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the present Entrance Examination in Arts, then the Bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire the Bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each Bursar receives one-half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder. One Bursary will be awarded in November 1891, the other in November 1892.

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[1] Vacant through lapse of time.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

Bursars—James Rodger, 1890 (1889); William Gow, 1890.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £50 per annum to each Bursar.

Bursars—John M. Dickie, 1889; Ephraim Henderson, 1890.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty.*)—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *cæteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George

Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

Bursars—William R. Paterson (Campbell Bursary), 1889; John M'Kenzie (Society Bursary), 1889; John M'Lean (Society Bursary), 1890; John M'Gregor (Society Bursary), 1890.

George A. Clark Bursaries or Scholarships (*Arts, etc.*)—(See under "Scholarships.")

John Clark (Mile-End) Bursaries (*Arts*).—Founded in 1868 in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *cæteris paribus,* given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £30,000. Six Bursaries on this foundation will be competed for in November, 1891.

Bursars—[1]John Bartholomew, 1887; [1]Horace S. Carslaw, 1887; [1]Samuel D. Cowan, 1887; [1]Andrew G. Thomson, 1887; Robert G. Nisbet, 1888; James T. Rankin, 1888; Charles W. Thomson, 1888; John Paton, 1888; George N. M. Birkett, 1889; William Blue, 1889; Robert Yeomans, 1889; David H. Crawford, 1890; James Dick, 1890; William L. Ramsay, 1890; Robert B. Walker, 1890.

Cowan Bursaries (Ayr Academy) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq. of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who shall have received their previous education, or part of it, at Ayr Academy. The Founder further directed by his Will that candidates should undergo a competitive examination, and that the tenure of the Bursaries should be for two years. The Bursaries are two in number, of the annual value of £35 sterling each, and are open to all students of either the Fifth or the Sixth Class (Classical Section) in Ayr Academy who have attended that institution for at least two sessions before the date of the competition. On a vacancy, intending candidates must send in their names and addresses to the secretary on or before the fifteenth day of October; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University.

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[1] Vacant through lapse of time.

No student who has gained a Cowan Bursary shall hold along with it any other Bursary. Each holder of a Cowan Bursary shall, during his tenure thereof, give attendance each session in two or more of the classes in the Faculty of Arts necessary for the degree of M.A.; and previous to enrolling himself as a student in any of these classes, he shall, if required to do so, intimate to the Secretary of the Academy or to the Rector, the particular course of study which he wishes to follow while holding the Bursary, that the same may be approved of by the Directors. These Bursaries are in future to be administered by "Ayr Educational Trust." Further information will be afforded by the Secretary of the Trust, Ayr.

Bursar—(At Glasgow University) —Robert Rillie, 1889.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. Preference to kindred of Founder, and students of the name of Craig. Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October of the year in which a vacancy occurs.

Bursar—John B. Craig, 1890.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, now amounts to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are —the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes; is awarded by the Senate in accordance with the result of that examination; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund.

Bursar—[1]Matthew M. Mather, 1889.

CRAWFURD OR BISHOP'S BURSARY (*Arts*).—Founded by Captain Thomas Crawfurd, of Jordanhill, in 1576. Appropriated to a student in Languages. Tenable for four years. Value, a chalder of meal (£12 or thereby) per annum. The Patrons are the Principal and the Professors of the University.

By ordinance of the University Commissioners, 7th June, 1862, this Bursary is placed upon the same footing as the Forfar Bursaries (for which see p. 189).

Bursar—John Thomson, 1889 (1888).

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *cæteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Burse is not payable until the Bursar shall have obtained two out of the three Departmental Certificates for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The Bursary in Medicine will be awarded at the close of the Medical Professional Examinations in October, 1892.

Bursar in Arts—[1]William C. Anderson, 1888.

Bursar in Medicine—James Carslaw, M.A., 1889.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by Mr. Peter Denny, engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition

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[1] Vacant through lapse of time.

Bursaries. The Trustees are Mr. Peter Denny, Mr. John M'Ausland, the Principal and Professors, and the Assessor of the General Council in the University Court.

Bursars—[1]Peter L. L. Craig, 1887 ; James A. Robertson, 1888 ; Allan M. Robertson, 1889 ; Alexander G. Craig, 1890.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value, £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 21, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Honorary Secretary, Mr. Thomas H. Carmichael, 176 Ingram Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

Bursars—Thomas M'Nay, 1888 ; John Affleck Hope, 1890.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan, of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years ; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present value, £35 to each Bursar.

Bursars—Samuel Macfie, 1888 ; James Lyle, 1889.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity. The Philosophy Bursaries are tenable for four years ; the Divinity Bursaries for two years.

The Bursars in Philosophy receive £40 each per annum, and those in Divinity, £41 2s. 6d. The appointment is now vested in the Duke of Hamilton.

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[1] Vacant through lapse of time.

In 1858, the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

Bursars in Philosophy—[1]Alexander Cordiner, 1887; [1]Dugald M'Donald, 1887; Joseph Sillars, 1888; James Walker, 1888; John A. Nicholls, 1889; John Shaw, 1890; Henry A. Williamson, 1890.

Bursars in Divinity—[1]Duncan H. Brodie, M.A., 1889; [1]John Colville, M.A., 1889; [1]Robert H. Kerr, 1889; Alexander Maclellan, 1890; John M'Arthur, 1890; James M. Crawford, 1890.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section:—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the May examination. The third examination will be held in May, 1891.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance: (1) Natural Philosophy; (2) Chemistry (lectures); (3) Mathematics; (4) Naval Architecture and Marine Engineering. During the second year of attendance: (1) Mathematics; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

Bursar—[1]Wilfrid Lawson Patrick, 1889.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879, by the Merchants' House of Glasgow, in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by Students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October, in each year.

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[1] Vacant through lapse of time.

Bursars—[1]Henry A. Watson, 1887; Robert Lamond, 1888; William Donald, 1889; William R. Gourlay, 1890.

EXCHEQUER BURSARIES (*Arts and Theology*).—These Bursaries, six in number, were founded by King William III., in 1695. They are tenable for six years; the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. In case of a vacancy by death or otherwise, a student of the same standing with the late Bursar is appointed for the remainder of the time. The Bursars in Philosophy receive £10 per annum each, and those in Divinity £13 6s. 8d.

Bursars—[1]John Campbell, M.A., 1888 (1885); Hugh S. Given, 1886 (Divinity); John Fairley, 1890 (1887) (Divinity); Andrew M'Allister, 1888 (Divinity); David Young, 1889 (Nat. Phil.); Andrew E. Wallace, 1890 (Mor. Phil.).

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz.:—In November, 1878, and thereafter, triennially, in Mental Philosophy, including English Literature; in November, 1879, and thereafter, triennially, in Mathematics; in November, 1880, and thereafter, triennially, in Classical Literature. The Examination is the same as that for honours in the corresponding department (with the addition in the case of the Department of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in November. Candidates must have completed the course of attendance required for admission to examination in the corresponding department for the Degree of M.A. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *cæteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

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[1] Vacant through lapse of time.

Candidates for the Bursary to be competed for in 1891 will be examined in Mathematics, on *Friday and Saturday, 6th and 7th November*, along with the examinations on these subjects for the Degree of M.A. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 1st October.

Bursars—James F. Gemmill, 1889; John E. Black, M.A., 1890.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737, and foundation remodelled by the Universities Commissioners, by ordinance of 31st May, 1862. There are now four Forfar Bursaries in the gift of the Senate: the holder of each to receive £30, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance in the Faculty of Arts, and are tenable for four years; subject, in each case, to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. In the event of a vacancy occurring otherwise than by lapse of time, a student of the same standing as the late Bursar may then be appointed for the remainder of the period, otherwise the Bursary continues vacant till the end of that period.

Bursars—[1]Peter Macnab, 1890 (1887); Frederick W. Johnston, 1888; Joseph Macnaughtan, 1889; Joseph F. M'Fadyen, 1890.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by

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[1] Vacant through lapse of time.

Deed of Mortification, of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow, for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary and factor, Mr. James Chapman, Town-clerk, Airdrie. (Three vacancies.)

Bursars—Guy S. Peebles, 1889 (3 years); Andrew R. Cowie, 1889 (3 years).

FOUNDATION BURSARIES (*Arts*).—These Bursaries, four in number, were founded by James VI., in 1577, for students in Languages and Philosophy. The value of each is £10 per annum. The right of presentation belongs to the Senate. By ordinance of the Universities Commissioners, of date 7th June, 1862, these Bursaries are put upon the same footing as the Forfar Bursaries (for which see above).

Bursars—[1]William R. Kerr, 1888 (1887); John G. Spens, 1889 (1888); William S. Templeton, 1889; Robert Rule, 1890.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution, dated 22d December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English ; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. The estate is in the meantime burdened with annuities amounting to the sum of £30 sterling. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age. (Three vacancies.)

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[1] Vacant through lapse of time.

Bursars—[1]James C. Paterson, 1889; [1]William Jack, 1889; [1]William R. Skeoch, 1889; Mungo M. Fairgrieve, 1890; John Hall, 1890.

General Council Bursaries *Arts*).—Under a scheme originated by Mr. David Hannay, clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,300 (Fund No. II.) has been raised to form the nucleus of a permanent General Council Bursaries Fund. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, this sum was appropriated to two Park General Council Bursaries of £20 a-year, open to second year's students, and tenable for two years. (Two vacancies.)

Bursars—[1]Donald Macgillivray, 1890 (1888); Charles E. Nicol, 1890 (1889); John J. H. Johnston, 1890; [1]David Young, 1890 (Park, 1889); J. C. M'Clure, 1890 (Park).

John Gibson Bursaries (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson, of Oakband and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. When a vacancy occurs applications are to be made to James Graham, LL.D., writer, 198 West George Street, Glasgow, who will furnish forms of application.

Bursars—John J. Boyd, 1889; Robert W. Forrest, 1890.

Gilchrist Bursary (*Arts*).—Founded by Mr. John Gilchrist, in 1700, for a student in Philosophy, being the son of a tradesman freeman in the Burgh of Glasgow. Preference to names Gilchrist,

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[1] Vacant through lapse of time.

Bryce, and Boyd. Value, £8 per annum. Appointment by the Trades' House.

Bursar—John P. Granger, 1890.

GILHAGIE BURSARY (*Theology*).—Founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. Tenable for four years. Value, £6 6s. per annum. Appointment by the Magistrates, Town Council, and Ministers of Glasgow.

Bursar—William Vallance, 1889.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the Queen's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every Queen's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of October in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1890 five Queen's Scholars and two other Bursars will be appointed.

Bursars—[1]George Duncan, 1887; Ebenezer Scott, 1888; William Martin, 1888; William S. Macmillan, 1889; Robert Wilson, 1889; Campbell M. Macleroy, 1889; Archibald M'Callum, 1890; Allan M. Nelson, 1890; James Pollock, 1890.

Queen's Scholars—[1]Thomas M. Fawns, 1889; [1]George Irving, 1889; [1]John Edwards, 1889; [1]Alexander Donaldson, 1889; [1]Charles S. Dougall, 1889; John S. Robertson, 1890; John S. Hastie, 1890; Andrew Hunter, 1890; Andrew Watt, 1890; Thomas Nisbet, 1890.

[1] Vacant through lapse of time.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant, of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-end, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has obtained all the certificates necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

Bursar—David Fergusson, 1889.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-end, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disponed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserves to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has obtained all the certificates necessary for graduation. Any accumulations through vacancies or otherwise to be added to the capital sum.

Bursar—Peter N. Grant, 1885.

HAMILTON BURSARIES (*Arts and Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694.

The conditions of tenure are exactly the same as in the case of the Exchequer Bursaries; see page 188. The Bursars in Philosophy receive £20, and those in Divinity £25, per annum each. The right of presentation is vested in the Duke of Hamilton. (Regulated by Act of Parliament, 1758.)

Bursars—[1]Thomas D. M'Ilvean, 1885; Angus M'Donald, 1886 (Divinity); [2]Frederick A. Andrews, 1887 (Divinity); James P. Baird, 1888 (Divinity); John C. M'Naught, 1889 (Nat. Phil.); Charles Macdonald, 1890 (Mor. Phil.).

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of October.

Bursars—[1]John S. Scott, 1888; David M. Yule, 1890.

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen, and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st October.

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[1] Vacant through lapse of time. [2] Vacant by absence of bursar.

Bursars—[1]John M'Callum, 1889 (1888); George S. Yuille, 1889; William A. Morton, 1890.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—In 1772 the Rev. Mr. Hastie founded a Bursary for a student in this University. By an addition since made to the foundation, the number of Bursaries is increased to three, two in Divinity and one in Philosophy.

By ordinance of the Universities Commissioners, 31st May, 1862, there are three Bursaries on this foundation, each £25 in value —one in Arts, tenable on the same conditions as the Forfar; the other two in Theology, open to competition to all Masters of Arts of any of the Scottish Universities entering upon the first or second year in Divinity, and tenable for three years.

Bursar in Arts—William G. Skinner, 1889.

Bursars in Theology—[1]William Campbell, M.A., 1888; William Howie, M.A., 1889.

HOWISON BURSARY (*Arts*).—Founded in 1613 by the Rev. John Howison, of Cambuslang. The Bursar to be a qualified scholar of honest name and good report, son of a craftsman of Glasgow, whom failing, any other qualified scholar selected by the Patrons. Annual value, £9. Appointment by the Trades' House. "The Bursar to pass his course within the College."

Bursar—Archibald Stuart, 1890.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be "competed for by boys who have attended not less than two sessions in the Secondary Department of Hutchesons' Grammar School." Forms of application may be had from the Secretary of the Trust—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of October in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1891 five Bursars will be appointed.

Bursars—[1]William Clow, 1887; [1]John M. Cocker, 1887; [1]David Lamb, 1887; [1]William Murray, 1887; [1]William Sharp, 1887; Benjamin H. Dodd, 1888; Walter S. Findlay, 1888; George Kerr,

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[1] Vacant through lapse of time.

1888; Robert G. Nisbet, 1888 ; Charles W. Thomson, 1888 ; Malcolm M'Lucas, 1889 ; John M. Forsyth, 1889 ; John M. Hodge, 1889 ; John D. Louttit, 1889 ; William Yule, 1890 ; John Cumming, 1890 ; James L. Forrest, 1890 ; John S. Leishman, 1890 ; Joseph Shillinglaw, 1890.

HYNDFORD BURSARY (*Arts*).—Founded in 1617 by Mr. Michael Wilson, for a student in Philosophy. Tenable for four years. Value, £6 13s. 4d. per annum. The right of presentation belongs to the representative of Sir James Carmichael, who is at present Sir W. C. Anstruther, Bart.

Bursar—Gilchrist G. Alexander, 1888.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, "and shall be awarded to a student on entering the third session of his attendance, *i.e.*, a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who intends to prosecute a full course in the Department of Mental Philosophy, including English Literature." Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary "shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes in the Department of Mental Philosophy (including English Literature, unless he shall have attended that class during one of his previous sessions), and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the departmental examination in Mental Philosophy for degrees." The subjects of examination are—Professor Veitch's *Institutes of Logic*, Part I. (Large print only) ; Descartes (English Translation of 1879 or subsequent edition), Introduction, sections I., II., III.; *Discourse on Method; Meditations*, I. and II.; Spalding's *English Literature*, pp. 169-269 ; Milton's *Paradise Lost*, Book I. ; Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

Bursar—[1]James A. Clark, 1889.

MALCOLM KERR BURSARIES (*Arts—Nat. Phil.; and Medicine—Chem.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in

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[1] Vacant through lapse of time.

Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A., with Second Class Honours; and in Chemistry, the same as those for M.A., with Honours in Natural Science. Present value, £18 to each Bursar.

Bursar in Natural Philosophy—James H. Gray, B.Sc., 1890.

Bursar in Chemistry—William Francis, 1889.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applications to be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

Bursar—Malcolm M'Kinnon, 1889.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. Application to be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed, dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one

Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

Bursar—Andrew Robertson, 1890.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863, by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael, and a preference given to any applicant in the parish of Carmichael or Pittenain, whom failing one may be chosen from any other parish in the Presbytery of Lanark. Value about £12 per annum.

Bursar—John L. Frood, 1890.

LEADBETTER BURSARY (*Arts*).—Founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It is £9 in value and tenable for four years; the Bursar attending Greek and Latin the first year; Logic and Mathematics the second year; Moral Philosophy and Mathematics the third year; and Natural Philosophy the fourth year. Preference to boys who have attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates.

Bursar—[1] John Semple, 1887.

LEIGHTON BURSARIES (*Arts and Theology*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, at present of the value of £9 per annum each. They are tenable for four years in Philosophy, and two or three years in Divinity. On a vacancy, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar.

Bursars—William C. Henderson, 1890; Robert S. Macmorran, 1890.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

Bursar—John Sinclair, 1890.

OLD LIBRARY BURSARY (*Theology, Law, or Medicine*).—Founded by Mr. Hutcheson, of Lambhill, in 1641. Tenable for four years. Value, £11 2s. 2¾d. per annum. The Bursar must be M.A. Preference to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow.

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[1] Vacant through lapse of time.

Bursar—Thomas H. Lillie, M.A., 1889.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

Bursar—Peter D. Strachan, 1890.

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

Bursar—[1]Campbell C. Edgar, 1887; Alexander Taylor, 1888.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. A preference, *cæteris paribus*, is given to the names Logan and Johnstone. The value of each is £16 per annum. Appointment by the Senate.

Bursar in Theology—Thomas Cook, 1890.

Bursar in Medicine—Frederick H. Waddy, 1889.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement, of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects:—1, Theology; 2, Medicine; 3, Philosophy; 4, Mathematics; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

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[1] Vacant through lapse of time.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £20, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £20 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examination for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £20, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in General Education for M.B., or who possess such a degree in Arts as is recognized by the University as exempting from an examination in General Education. The subjects of examination, which shall be prescribed by the Medical Faculty, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Final Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects, and who intend to prosecute a full course in the department of Mental Philosophy, including English Literature. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the higher classes in connection with the classes of Logic and Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained a Certificate in the Mental Philosophy Department for a Degree in Arts.

5. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Mathematics and

Natural Philosophy, or who having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for obtaining a certificate in the Mathematical Department for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained this Certificate.

In session 1891-92 four of the above £25 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursary in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursary in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursary in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 196), and the examination will take place along with the November examinations for M.A. in English and Logic. The examination for the Bursary in Mathematics will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

Bursars in Theology—[1] William Main, 1888; David H. Gillan, 1889; Stevenson M'Nab, 1890; William B. M'Nab, 1890.

Bursars in Medicine—[1] William R. Thomson, 1888; John Morton, 1889; William S. Cook, 1890; John F. R. Gairdner, 1890; John J. Urwin, 1890.

Bursars in Arts—[1] John H. Pagan (Phil.), 1888; [1] John Anderson, (Math.), 1888; David Graham (Phil.), 1889; Walter Stewart (Math.), 1889; John M. Connor (Phil.), 1890; Gavin L. Pagan (Phil.), 1890; Walter S. Findlay (Math.), 1890; Edward H. Wallace (Math.), 1890.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology.

Bursar—David Bayne, M.A., 1890.

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[1] Vacant through lapse of time.

LUSK BURSARY (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Present value £33 per annum.

Bursar—John Ruggan, 1890.

MACARTHUR BURSARY (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed two winter sessions of medical study. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April to Mr. Alexander Duncan, Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

Bursar—Johnstone Brown, 1891.

M'CRIE BURSARIES (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and moveable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers, not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. One of the Bursaries on this foundation will be competed for in October next, and the examination will be held in Ayr. Candidates will be examined on the following subjects :—Classics : Latin, Greek. Mathematics : Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English : Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October, 1890.

Bursars—John Paton, 1888 ; David H. Crawford, 1890.

James Melville M'Culloch Bursary (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

Bursar—Malcolm Dunlop, 1889.

Macdonald Bursaries (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history.

Bursars—Peter Campbell, 1889 ; George L. Wilson, 1889.

John and Isabella Macdougall Bursaries (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz. :—The Rev. Wm. G. H. Carmichael, East Church Parish ; the Rev. Archd. Fleming, St. Paul's Church Parish ; the Rev. Robert Milne, West Church Parish ; the Rev. William Stevenson, Middle Church Parish ; and their successors in office for the time being, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (Two vacancies.)

Bursars—[1]Joseph B. Logie, 1888 ; George A. Stalker, 1889 ; Charles D. M. Ross, 1889 ; William Gow, 1890.

MALCOLM M'EWEN BURSARY (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement, dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows :—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund. (Vacant.)

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[1] Vacant through lapse of time.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees, to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—[1]Matthew S. Dickson, 1888.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Medical Faculty. Value, about £40. Tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in general education for M.B. The Examination will be held at the close of the first session of professional study. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

Bursar—James Clark, 1890.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

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[1] Vacant through lapse of time.

Bursars—[1]James Robertson, £20, 1887; [2]John J. H. Johnston, £15, 1889.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh, of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £30. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted early in July by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while he continues to hold it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

Bursar—Lewis D. Temple.

M'KECHNIE BURSARIES (*Any Faculty*).—Two in number, founded by the Disposition and Trust Settlement of the late Thos. M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. Application to be made to Messrs. W. and D. Andrews, solicitors, Girvan, not later than 31st August.

Bursars—[1] William M'Cartney, 1887; [1] Henry D. M'Kechnie, 1887.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

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[1] Vacant through lapse of time.

[2] Vacant—Bursar appointed to a more valuable Bursary.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will, dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £17 per annum to each Bursar.

Bursar in Theology—William Sharp, 1890.

Bursar in Medicine—Hugh Kerr, M.A., 1888.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils who have held free scholarships or school bursaries under the scheme, and pupils who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—Mr. William Mitchell, 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of October in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. (Two vacancies.)

Bursars—Jas. S. Cuthill, 1889 ; R. A. Meiklem, 1889 ; Alexander Taylor, 1890 ; James A. Higgins, 1890.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir

Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*English*, Reading and Writing from Dictation; *Arithmetic*, as far as Decimal Fractions; *Euclid*, first three books; *Latin*, Cæsar de Bello Gallico, first four books, and to translate a piece from English into Latin; *Greek*, Xenophon's Anabasis, first three books. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. Geo. J. Haynes, Camserney Cottage, Aberfeldy, on or before 20th September.

Bursars—[1] William Menzies, 1887; Alexander M'Duff, 1888; John Menzies, 1889; Hugh Menzies, 1890.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879, by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, including Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, including Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examinations for the above Bursaries will be those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October, 1891.

Bursar in Arts—David G. Webster, 1890.

Bursar in Law—R. Bruce Taylor, 1890.

Bursars in Medicine—[1] Robert C. Robertson, 1887; William B. Brodie, 1888.

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[1] Vacant through lapse of time.

METCALFE BURSARIES (*Arts*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry ; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the senior class of Mathematics, or the class of Chemistry.

Bursars—Alex. G. G. Guthrie, 1890 ; James B. Henderson, 1890.

MITCHELL (See Lochhead and Mitchell, p. 199).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith, of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1891-92 a regular three years' Bursary will be competed for, the examination being in French.

Bursars—[1] John Lindsay (German), 1888 ; John Gunn (German), 1890.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, James Graham, writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University, and who have passed the whole of the Examination in General Education for the Degree of Bachelor of Medicine, or who possess such a Degree in Arts as may be recognized by the University as exempting from such examination. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.*, the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

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[1] Vacant through lapse of time.

Bursars—[1]Hugh Galt, 1889 ; John Morton, 1890.

MUIR BURSARIES (*Four in Arts and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum ; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate ; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming :—

1. *Muir Bursary in Divinity.*—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

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[1] Vacant through lapse of time.

2. *Muir Bursaries in Mathematics.*—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Course IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the University Calendar.

Arrangements for Session 1891-92.—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1892-93, 1893-94, shall be determined by the results of the written examinations passed in the course of the session 1891-92 by the public students of the Upper Junior Class of Mathematics. The successful candidate shall, during session 1892-93, attend the Senior, and during session 1893-94 the Upper Senior Mathematical Class. The appointment to the Senior Bursary, tenable during session 1892-93, shall be determined by the results of the written examinations passed in the course of the session 1891-92 by the public students of the Senior Mathematical Class. The successful candidate shall, during session 1892-93, attend the Upper Senior Mathematical Class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1892-93 must be (*a*) students attending during session 1891-92 Engineering Course III., who are also attending or have in a previous session attended the Middle or the Senior Class of Engineering Drawing and Calculations, or (*b*) students attending during session 1891-92 the Middle or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Course II. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of those classes, together with the following subjects in preparation for the Senior Class of Civil Engineering and Mechanics (Course IV.), viz.:—The elements of Plane Trigonometry; the elements of Coordinate Geometry; Differential and Integral Calculus in cases of powers of a variable when the index of the power is a whole numeric; and in cases of trigonometrical functions; Principles of curvature; Relation between Neperian logarithms, common logarithms, and logarithms in general; the use of logarithms. The successful candidates shall, during session 1892-93, attend the Senior Class of Civil Engineering and Mechanics (Course IV.).

Bursars in Mathematics.—Junior Bursar for session 1891-92, Charles S. Dougall, 1890; for sessions 1891-92, and 1892-93, James Rodger, 1891; Senior Bursar for session 1891-92, Walter Stewart, 1891.

Bursars in Civil Engineering and Mechanics for Session 1891-92, John Irvine, 1891; William Muirhead, 1891.

Bursar in Theology.—[1]William Scott, M.A., 1888.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Dr. F. L. Robertson, Hutcheson Buildings, Ingram Street, on or before the 3rd day of November. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

Bursars—[1]William Newlands, 1889; James Aiken, 1890.

NOTMAN BURSARY (*Theology*).—By deed of Settlement, dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier, of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £17 per annum.

Bursar—Gavin Warnock, M.A., 1890.

ORR-EWING DUMBARTONSHIRE BURSARIES (*Arts*).—Sir Archibald Orr-Ewing, Bart., of Ballikinrain, M.P., by Bond and Foundation dated 19th September, 1877, bound and obliged himself, his heirs, etc., to pay to the University of Glasgow, and to the Senatus Academicus thereof, as trustees, the sum of £1,600 sterling in seven annual instalments, payable at Martinmas in each of the years following, viz. :—In 1878, £100 ; 1879, £200 ; 1880, £300 ; 1881, £400 ; 1882, £300 ; 1883, £200 ; 1884, £100—to be held and applied for providing four Bursaries of £25 per annum each, tenable for four years, to be competed for in each of the years 1878, 1879, 1880, and 1881. By a letter to the Senate dated 5th February, 1883, he intimated his intention to give yearly four Bursaries of £25 each during his lifetime. The Bursaries are open only to candidates who have attended a Public Parochial, being an ordinary Board School or Schools, in one or more of the landward Parishes of Dumbartonshire, or of the Parishes of Buchanan, Drymen, Balfron, Killearn, Fintry, Strathblane, Baldernock, and Milngavie, being Parishes in the Presbytery of Dumbarton, for the full period of four years immediately preceding the competitive examination for the said Bursaries, who shall at the date of such examination be under the age of 17 years complete, and who shall express their intention of forthwith entering the University of Glasgow and proceeding with the studies required for obtaining the Degree of Master of Arts from the said University, and shall actually enter the said University accordingly. Each of the said Bursaries shall, as a rule, be tenable for four years, but on condition that each Bursar shall, during or prior to his fourth session of attendance at the said University, have passed two out of the three departmental examinations for the said Degree of Masters of Arts, wherein if he fail he shall forfeit all right to the said fourth year's payment of £25. Candidates will be examined in at least three of the following subjects, viz. :—(1) English Language and Literature, (2) Mathematics, (3) Latin, (4) Greek, of which three subjects English Language and Literature must always be one. Should the examiners not consider the candidates to have passed an examination of sufficient value, or should a sufficient number of candidates not come forward, the Senatus shall offer in subsequent years additional Bursaries of £25 each. In the event of a Bursary becoming vacant otherwise than by lapse of time, the Senatus are to apply the funds thereby left at their disposal for the benefit of Divinity students belonging to Dumbartonshire.

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[1] Vacant through lapse of time.

Bursars—[1]James A. Bain, 1887 ; [1]James Davidson, 1887 ; [1]Thomas M. Inglis, 1887 ; [1]George Stirling, 1887 ; [1]Peter D. Thomson, 1887 ; John G. Cranmer, 1888 ; James Allan, 1888 ; Charles Cairnie, 1888 ; Morris Frater, 1888 ; William L. Bain, 1889 ; John Chalmers, 1889 ; James R. Drever, 1889 ; James Taylor, 1889 ; George Gardner, 1890 ; William Morrison, 1890. (Seven vacancies.)

James Paterson Bursary (*Arts*).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the

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[1] Vacant through lapse of time.

Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the Degree, or that he has obtained all the certificates necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist body.

Bursar—John D. Robertson, 1890.

PATRICK BURSARIES (*Arts*).—Two in number, founded in 1860, by Mr. William Patrick, of Roughwood, W.S., the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They are tenable for two years, but may be continued for other two. Candidates must have gone through a course of education at some one of the Public Schools in the county of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

The examination is in Latin, Greek, Elementary Mathematics, and English.

Bursars—[1]James S. Dunlop (£80), 1889; Roderick M. Matheson (£40), 1890.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives

[1] Vacant through lapse of time.

of the county of Perth, and also to sons of persons who are *bona fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Mr. George Gray, writer, County Buildings, Glasgow, Secretary of the Society, not later than the first October preceding the competition.
Bursar—[1]James M'Queen, 1888.

Pollock Bursaries (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained at least two of the Departmental Certificates for the Degree of Master of Arts.
Bursars—[1]Hamilton P. Paterson, 1888; Robert H. Coats, 1889; William Cumming, 1890.

Rainy Bursaries (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Medical Faculty, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to

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[1] Vacant through lapse of time.

£20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session ; and the examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years, namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1891 the competition for one of these Bursaries will be held on 5th and 6th October. Candidates are required to give in their names (with Certificates) to the Assistant Clerk (Matriculation Office), on or before the 1st October.

Bursars—[1]Robert Bishop, 1889 ; James M. Young, 1890.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years. (Both vacant.)

ROSS BURSARY (*Arts*).—The Bursary was founded in 1659 by Captain Wm. Ross, of Rosseyle. It is tenable for four years, and the appointment is vested in the Earl of Glasgow. Value, £4 3s. 4d. per annum.

Bursar—George S. M'Kinnon, 1890.

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[1] Vacant through lapse of time.

John Ross, Junior, Bursary (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—William S. Brownlee, M.A., 1890.

Sanders Bursary.—(See Boyd and Sanders Bursary, p. 179.)

Scott Bursaries (*Arts*).—Founded in 1874, along with the Scott Scholarship, on the occasion of the centenary of the birth of Sir Walter Scott; the Committee having resolved to employ the fund, raised by public subscription, which amounts to £3,500, "for the benefit of distinguished University students." The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being the Council's Assessor in the University Court, *ex-officio*. The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University. (One vacancy.)

Bursars—Andrew B. Nielson, 1888; Alfred J. Fleming, 1890.

Shearer Bursaries (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer, dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years, immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University, in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of thirty pounds, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

SMITH BURSARIES (*Any Faculty*).—Two in number, founded in 1849 by Dr. John Smith, of Crutherland; not restricted to any particular description of students. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company preferred; then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. Value, £9 per annum each. Tenable for one or more years at the option of the patrons. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

Bursar—J. Russell Aitken, 1887; C. M. Burnside, 1888.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement, dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years. An appointment to one of the Bursaries will be made in November, 1891.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson are preferred. In case of a vacancy, a student of the same standing is appointed.

Bursars—[1]David M. Stewart, 1887; Frederick R. Stewart, 1889 (1888); John Stewart, 1890.

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[1] Vacant through lapse of time.

GLASGOW STIRLINGSHIRE AND SONS OF THE ROCK SOCIETY'S BURSARY (*Arts*).—Founded in 1876 by the Glasgow Stirlingshire and Sons of the Rock Society. Value, £25 per annum, and tenable for four years. The Bursary is open to competition to "all students who have been born and educated in the county of Stirling." Candidates must be entering on their first session of attendance in the Arts Classes. Secretary of the Society, Mr. Arthur Forbes, writer, 146 Buchanan Street, Glasgow.

Bursar—James Watchman, 1890.

STRUTHERS BURSARY (*Theology*).—In 1624, the Rev. William Struthers founded two Bursaries for students in Divinity. Value, £6 13s. 4d. per annum each. By ordinance of the Universities Commissioners, of date 17th May, 1862, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. and a student of Divinity. All other restrictions were abolished. The right of nomination belongs to the Magistrates and Town Council of Glasgow.

Bursar—[1]George R. Maclennan, 1888.

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement, of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. Preference to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur.

Bursars—John Taylor, 1888 ; John G. Ronald, 1889.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876, before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately, the candidate being at liberty to offer a special subject. The examination is open to all students of the first and second year who have not already attended any Class in the Philosophical Department, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed the Departmental Examination in Classics for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy are the same as for the John Ferguson Jaffrey Bursary in Mental Philosophy.

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[1] Vacant through lapse of time.

The next examination will be held in November, 1892, the subject of examination being Mental Philosophy.

Bursar—Angus King, 1890.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed a Departmental Examination for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the November two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1892. Applications to be sent in to the Clerk of Senate on 1st December of that year.

Bursar—Andrew G. Murray, 1890.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two Students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £36 per annum.

Bursar—Robert E. Newton, 1890.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

Bursar—Hugh Galt, 1890.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711, bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, Dr. Williams' Library, Gordon Square, London, W.C. The state of the funds of this foundation will not admit of more than one appointment being made in session 1891-92.

Bursars—[1]William Samuel, 1888 ; [1]John Vaughan, 1888 ; Herbert Stowell, 1889 ; Thomas W. Jones, 1890.

WILSONE BURSARY (*Theology*).—Two Bursaries, value £6 13s. 4d. per annum each, were founded by Mr. Michael Wilsone, in 1640. Patrons—The City Magistrates and Council.

By ordinance of the Universities Commissioners, of date 17th May, 1862, confirmed by Her Majesty in Council, these Bursaries were conjoined into one, tenable for three years ; the holder to be M.A. in regular attendance as a student of Theology. Restrictions as to kindred, etc., abolished.

Bursar—John Boyle, M.A., 1889.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890, by the Trustees of the late Major Young, founder of the Walkingshaw Young Bursary. The amount of the Bursary Fund is about £1312, and each of the Bursars receives one-half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *cæteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes, and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course ; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition.

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[1] Vacant through lapse of time.

Bursars—Alexander M. MacRobert (six years), 1890 ; Harry Lumsden (two years), 1890.

2. *EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.*

ALPHABETICALLY ARRANGED.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological, -	1	Masters of Arts of Scot. Univ.,	£140
Breadalbane, - - -	2	Do. Glas. Univ.,	£50
Clark, George A., - -	4	Do. do.	£175
Clark, John (Mile-end),	8	Arts Students at close of Curric.,	£50
Clydebank, - - - -	1	Students of Naval Architecture,	£10
Cunninghame, - - -	2	Bachelors of Laws of Glas. Univ.,	£32
Alexander Donaldson,	1	Candidates for B.Sc. (Chemistry),	£38
Robert Donaldson, - -	2	Bachelors of Science of Gl. Univ.,	£62
Eglinton, - - - - -	2	Masters of Arts of do.	£100
Euing, William, - -	3	Do. do.	£80
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial, - -	1	Medical Graduates or Licentiates,	£50
Lloyd's Register, - -	1	Students of Naval Architecture,	£50
Luke, - - - - - -	1	Masters of Arts of Glas. Univ.,	£110
Mackay Smith, - - -	2	Students in Nat. Phil. and Chem.,	£48
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£100
Sandford, - - - - -	1	Greek Students, do.	£20
Scott, - - - - - -	1	Masters of Arts of do.	£80
Shaw Philosophical, -	1	Do. Scot. Univ.,	£160
Snell (at Oxford), - -	5	Masters of Arts, etc., Glas. Univ.	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, of the annual value of £140 or thereby, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court :—

1. The Black Theological Fellowship shall be tenable for two years.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in the year in which the examination is held, or who shall have completed that curriculum in any of the three preceding years.

3. At the competition in November, 1885, and thereafter in November at intervals of four years (November, 1893), the examination shall be in Hebrew (with one cognate language), New Testament Exegesis, and Apologetics ; and at the competition in April, 1887, and thereafter in April at intervals of four years (April, 1895), the examination shall be in Divinity (Biblical and Systematic Theology), Church History, and Biblical Criticism.

4. The Fellowship shall be awarded by the Theological Faculty only when the examining Professors shall report that the Candidate is of sufficient merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. No candidate who has gained the Fellowship at one examination shall be at liberty to compete for it a second time.

7. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship falling to be awarded at the same time, or subsequently during its tenure.

The ninth competition shall take place in November, 1893. The examination will be on the subjects prescribed for the first department of the examination for the degree of B.D., and on additional subjects, including Aramaic.

Present Fellow.—Ewen A. Rankin, B.D., *April*, 1891.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the "annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the 'Breadalbane Scholarships,' in such manner as shall be fixed by the Senatus Academicus of the said University."

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination ; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in May immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years, provided that at the end of the 1st and 2nd years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

One of these Scholarships will be competed for in November, 1892. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 1st October, 1892.

Scholars.—Abraham Levine, M.A., 1889 ; Peter Pinkerton, M.A., 1890.

George A. Clark Bursaries or Scholarships.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the November examination for Degrees in Arts.

2. The Candidates for the Bursaries shall be either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours, in any one of the four departments, enumerated in the ordinances of the Universities Commissioners, No. 14, § VII., and No. 18, § III., viz. :—

(1) Classical Literature.
(2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.
(3) Mathematics, including Pure Mathematics, and Natural Philosophy.
(4) Natural Science, including Botany, Geology, Zoology, and Chemistry.

But no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University, as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named departments (the department selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year ; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year, provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed ; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments.

One of these Bursaries or Scholarships, of the annual value of about £175, and tenable for four years, will be competed for, subject to the foregoing regulations, in November of the present year ; the examination to be in the third of the four departments above enumerated—viz., Mathematics. Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October.

Bursars.—[1] John Dougall, M.A., 1887 (Mathematics) ; Robert Kennedy, M.A., B.Sc., 1888 (Natural Science) ; David Smith, M.A., 1889 (Classics) ; Evan K. Evans, M.A., 1890 (Mental Philosophy).

John Clark (Mile-End) Scholarships.—By the Deed of Constitution regulating the John Clark Bursaries (see page 175), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees do not appoint any one who already holds a scholarship of greater value. Three Scholarships will be competed for in November, 1891, one in the department of Natural Science, one in the department of Classics, and one in the department of Mental Philosophy. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective departments.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before the 1st October, and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow.

Scholars—[1] Arthur D. Millar, 1887 ; [1] James Gilfillan, 1887 ; Robert Scrymgeour, 1888 ; Alexander Holm, 1888 ; James Holm, 1889 ; James Hunter, M.A., B.Sc., 1889 ; James Moffat, 1890.

Clydebank Scholarship.—Founded in 1885 by Messrs. James & George Thomson, engineers and shipbuilders, Clydebank. The endowment is in the meantime for six years, but will be made permanent should the experiment be successful. Value, £10 per annum. The Scholarship is to be competed for biennially, at such times as the Senate may appoint, by young men not under 18 years of age, who have been employed at least three years as working apprentices, or in the drawing offices of shipbuilding or engineering works situated in the districts of Clydebank, Yoker, or Dalmuir. The subjects of examination include Plane and Descriptive Geometry, Algebra, Plane Trigonometry, Elementary Dynamics and Hydrostatics. The successful candidate must attend during the two years for which it is tenable the course of lectures and of instruction in ship-drawing and calculations given by the Professor of Naval Architecture. When a vacancy occurs candidates are required to send in their names (with certificates) to the Assistant Clerk (Matriculation Office), on or before 1st October.

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[1] Vacant through lapse of time.

Scholar—[1]James Mathieson, 1889.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One-half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.
2. Each Scholarship shall be tenable for two years.
3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.
4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.
5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these Classes may require, subject to the approval of the Senate.
6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Scots Law Scholarship will be made in November, 1891.

Scholars.—[1] Alexander D. Blacklock, LL.B., 1889; Gavin Braidwood, LL.B., 1890.

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881, by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

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[1] Vacant through lapse of time.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc., held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

Scholar—David R. Boyd, 1890.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees:—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

An appointment to the Scholarship in Chemistry will be made in November, 1892. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), on or before the 1st October of that year.

Scholar—Alexander Galt, B.Sc., 1890.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,[1] and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.[1] In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in November, 1866, and thereafter triennially (1893); and the other in November, 1867, and thereafter triennially (1891).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed

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[1] *i.e.*, Either at the ordinary Graduation in May or at the Supplementary Graduation in November.

for in November, 1890, and thereafter sexennially, shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893 and thereafter sexennially, shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The subjects of examination for the Eglinton Fellowship to be competed for in November, 1888, and thereafter triennially, shall be the subject of examination for the Degree of Master of Arts with Honours in Mathematics and Natural Philosophy.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in November, 1891, the subject of examination being Mathematics and Natural Philosophy. The Fellowship, to which an appointment was made in November, 1890, being now vacant, it will be open to competition in November, 1891, and tenable for two years. The examination will be, as in 1890, in Classics.

Candidates are required to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

Fellows—[1] John Brownlee, 1889 (two years); [2] George D. Brown, M.A., 1890.

William Euing Fellowships.—Founded in 1874 by Mr William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and "to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition."

One fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

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[1] Vacant through lapse of time.

[2] Mr. Brown was appointed to a Snell Exhibition in April, 1891.

The Senate have issued the following regulations for the competition of these Fellowships :—

1. In the department of Classics there shall be one Fellowship competed for in November, 1875, and thereafter at intervals of four years (1891), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in November, 1876, and thereafter at intervals of three years (1891), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in November, 1875, and a Fellow appointed for two years ; the Mathematical Fellowship becoming vacant in November, 1877, shall be filled up for a period of three years (1892), the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

A Fellowship in Classics, and another in Mental Philosophy, will be open to competition in November, 1891.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 1st October.

Fellows—[1] James P. Wilson, M.A., 1890 (1887) (Classics); [1] Robert Bulloch Douglas, M.A., 1890 (1888) (Mental Philosophy); Gilbert Buchanan, M.A., 1890 (1889) (Mathematics).

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 29th September next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics ; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Metaphysics and Ethics.

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[1] Vacant through lapse of time.

Subjects for examination—

CLASSICAL SCHOLARSHIP. — *Latin*—Plautus, *Trinummus* and *Amphitruo.* Virgil, *Aeneid*, Books VII.-XII. Horace, *Satires* and *Epistles.* Cicero, *De Oratore*, Books I. and II. Tacitus, *Annals*, Books XI.-XVI. Quintilian, Books I., II., and X. Translations from Authors not prescribed. Latin Prose Composition.

Greek.—Homer, *Odyssey*, Books V.-XII. Sophocles, *Œdipus Coloneus*, *Ajax*, *Philoctetes.* Thucydides, Books IV., VI., and VII. Demosthenes, *De Falsa Legatione.* Plato, *Gorgias*, *Protagoras.* Aristotle, *Poetics.* Translations from Authors not prescribed. Greek Prose Composition.

Questions.—(1) On Language, Greek and Latin; (2) On Greek History and Literature, in the 5th and 4th centuries B.C.; (3) On Roman History and Literature, from B.C. 131 to A.D. 68. The Questions will bear chiefly on the books prescribed.

MATHEMATICAL SCHOLARSHIP.—*Mathematics.*—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy. — Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Experimental Physics and Applied Mathematics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

PHILOSOPHICAL SCHOLARSHIP.—*Logic.*—Province and History of Logic. Logical Forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority and Historical Proof. Physical Science and its Methods. Recent discussions affecting Logic.

Metaphysics.—Psychology and Ontology. Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God. History and Critical Analysis of Ancient and Modern Metaphysical Systems.

Moral Philosophy.—Psychology and Metaphysic of Ethics. Moral Faculty, Motives, and Will. Moral Government of the World and cognate Questions. Applied Ethics, including relations of Ethics to Law and Politics. History and Critical Analysis of Ancient and Modern Ethical Theories.

The competition will be open to all persons who have passed the last of the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships or competed more than once previously for any of them.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 600 out of 1,000 marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

> "Persons gaining the Scholarships will, during the "tenure thereof, be expected to prosecute studies in "furtherance of the higher learning; and those who have "not graduated shall be required to do so before the last "payment is made. Any case of conduct unbecoming a "scholar and a gentleman shall incur forfeiture of the "Scholarship, of which the trustees shall be sole "judges."

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, not later than 31st August, 1891, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical ; 1869, Archibald B. Cameron, Philosophical ; 1870, John Cross, Classical ; 1870, James Orr, Philosophical ; 1872, Wm. W. Waddell, Classical ; 1873, Thomas H. Millar, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M'A. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. M'Callum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Keri Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A., Mathematical.

Present Holders of the Scholarships.—James Cruickshanks Smith, M A., of Edinburgh University, Classics, 1889 ; Andrew Munro, M.A., of Aberdeen University, Mathematics, 1889 ; Evan Keri Evans, M.A., of Glasgow University, Mental Philosophy, 1889 ; Patrick Duncan, M.A., of Edinburgh University, Classics, 1890 ; Abraham Levine, M.A., of Glasgow University, Mathematics, 1890 ; Charles M. Douglas, M.A., of Edinburgh University, 1890.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next appointment will not take place until September, 1892. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Secretary, Alexander Foulis, Esq., 180 St. Vincent Street.

Scholar—Landel Rose Oswald, M.B., C.M., 1890.

LLOYD'S REGISTER SCHOLARSHIP.—The general Committee of Lloyd's Register of British and Foreign Shipping have intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following:—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics; Practical Shipbuilding; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed.

Scholar—William Sharpe, 1889.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £110 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The successful competitor shall be bound to give such assistance in the teaching of the class of English Literature as the Senate may in each case prescribe.

4. The Luke Fellowship shall be open to competition in November, 1868, and thereafter triennially (1892). The periods of History prescribed for next Examination are (1) The age of Pericles in Greece (Authorities—Thucydides, and the Greek Histories of Thirlwall and Grote); (2) English History from the Union of the Crowns, 1603, to the Revolution of 1688 (Authorities—The Histories of Green, Gardiner, Clarendon, Carlyle's "Cromwell," Forster on the Arrest of the Five Members, &c.).

5. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

6. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

7. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The Luke Fellowship will be open to competition in November, 1892.

Fellow—William Thomson, M.A., 1889.

Mackay Smith Scholarships.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this

University at the close of session 1892-93. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The examination in Chemistry will be held along with the examinations for the Degree of B.Sc. (new regulations), and the examination in Natural Philosophy along with the examinations for M.A.

Scholars—John D. Cormack, 1889 (Nat. Phil.); Hugh Galt, 1889 (Chem.).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 209.)

The following are the regulations of the Metcalfe Fellowship :—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in November, 1872, and thereafter triennially.

2. Candidates must be Masters of Arts with Honours in the department of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the May immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the department of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Practical Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The examination should, in ordinary course, have been held in November, 1887, but on account of the state of the Metcalfe Funds no appointment can be made till further notice.

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1893), and is open to all matriculated students (not Masters of Arts), who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors :—Homer, 12 books ; Herodotus, 4 books ; Sophocles, 3 plays ; Thucydides, 4 books ; Æschylus, 3 plays ; Demosthenes, one or more orations ; Aristophanes, 3 plays ; Xenophon's *Memorabilia;* Pindar ; Plato, one or more dialogues.

Candidates are examined on not more than four of the abovementioned authors (of which Homer is always one)—two in prose and two in verse ; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

Scholar—Edward H. Wallace, 1891.

Scott Scholarship—(See under head "Scott Bursaries," p. 217).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass in Mental Philosophy." The Scholarship will be open to competition in November, 1892. The examination will be in Mental Philosophy and English Literature.

Scholar—Nicholas Macnicol, 1890.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely :—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the

number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship, shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded ; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them ; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

Fellow—William Caldwell, M.A. (of Edinburgh University), 1888.

Snell Exhibitions.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned:—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided[1] as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

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[1] By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete Winter Session on not less than two of the classes in the curriculum for the Degree of Arts.

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1891. The next examination will be held in April, 1892, on the same days and at the same hours as the Examinations for the Degree of M.A. with honours, the English paper being taken on Saturday, 9th April, at 10 A.M.

The subjects of examination are as follows:—

IN LATIN, GREEK, LOGIC, AND MORAL PHILOSOPHY.—The subjects of examination for the Degree of M.A., with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the three departments of the examinations, viz.: Classics, Mental Philosophy, Mathematics; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time.

Exhibitioners—Charles J. M. Gordon, 1887; Ernest F. Scott, 1888; Hugh Macpherson, 1889; John E. M'Fadyen, 1890; George D. Brown, 1891.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson, LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal, of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continued prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

Scholars for 1891—William Buchanan, James H. Gray, Evan Parry, William R. Wilson.

3.—*PRIZES.*

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1890-91 will be found in the Degree and Prize List.

INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott,	£25 and £15,	Examinations.
Brunton Memorial,	£10,	Do.
Buchanan (3),	Books,	Do.
Cleland,	Gold Medal,	Essay.
Coulter,	Two at £5 each,	Essays.
Cowan (3),	Gold Medals,	Examinations.
Cunninghame,	Gold Medal,	Do.
Dobbie-Smith,	Gold Medal (biennial),	Essay.
Dowanhill,	£21 and £10 10s.,	Elocution.
Ewing,	Gold Medal (biennial),	Essay.
Findlater,	£38,	Examination.
Gartmore,	Gold Medal (biennial),	Essay.
Gladstone Historical,	£21 (biennial),	Examination.
Harvey, George,	£20,	Do.
Henderson,	£21,	Essay.
Jamieson,	£10,	Examination.
Jeffrey,	Gold Medal,	Do.
Thomas Logan Memorial	Do. and £12,	Do.
Luke Historical,	£10 (biennial),	Do.
Macfarlan and Cook,	£21,	Do.
Muirhead,	Books,	Do.
Rae Wilson,	Gold Medal.	Essay.
Reid, John,	£25,	Original Research.
Ross, Robert (2),	Med., books, or money,	Examinations.
Scott-Macfarlan,	Gold Medal,	Examination.
University,	Silver Medal,	Essay.
Walker (4),	Books, &c.,	Examinations.
Watt,	£10,	Essay.

Arnott Prizes.—Founded in 1869, by Dr. Neil Arnott, of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate, of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical studies ; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences ; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office); and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught ; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 7th November, 1891, in the Examination Hall, at 2 p.m. Intending Candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

CLELAND GOLD MEDAL.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

COULTER PRIZES.—In 1787, Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all students of the University.

COWAN GOLD MEDALS.—In 1836, Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10. each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1891. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1890-91.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following:—(*a*) Herodotus—two books; (*b*) Thucydides—two books; (*c*) Plato—two dialogues, or two books of the *Republic*; (*d*) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1891-92 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal, competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1891, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded ; the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The subject for the next competition to be an Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 14th November, 1891.

DOWANHILL PRIZES.—Two prizes, one of £21, and the other of £10 10s., for " Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865, by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.[1]

The above foundation is in memory of the late Mr. James Buchanan, of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan, of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828, James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations were adopted by the Senate, Nov. 30th, 1871, with modifications on 9th March, 1882, and 20th March, 1884 :—

1. The Findlater Scholarship shall be awarded annually by competition.

2. At the competition in November, 1885, and thereafter biennially (1891), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics ; at the competition in April, 1885, and thereafter biennially (1893), the examination shall be in Divinity (Biblical and Systematic Theology), Church History, and Biblical Criticism.

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[1] See Note at page 69.

3. The subjects of Examination in each of the departments shall be the same as those prescribed for the Degree of B.D.

4. The examination shall be held at the same time as the examination for the Degree of B.D.

5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.

The next competition will take place in November, 1891, the examination being in Hebrew, New Testament Exegesis, and Apologetics. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 3rd November, 1891.

GARTMORE GOLD MEDAL.—In 1788, Mr. Robert Graham, of Gartmore, presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The surpluses to be accumulated till a capital is formed sufficient to found a Bursary.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations :—

1. The Prize shall be given for the best examination in English History.

2. The examination shall be held biennially.

3. The value of the Prize shall be Twenty Guineas.

4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The sixth competition will take place in January, 1892. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1891.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey, of No. 9 Park Quadrant, Glasgow. Annual value, ordinarily £20, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850, Mr. John Henderson, of Park, merchant in Glasgow, instituted an annual prize of the value of

£21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations were adopted by the Senate, March 9th, 1882, with modifications on 20th March, 1884:—

1. The Jamieson Prize shall be awarded annually by competition.
2. At the competition in April, 1885, and thereafter biennially (1893), the examination shall be in Divinity, Church History, and Biblical Criticism; at the competition in November, 1885, and thereafter biennially (1891), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics.
3. The subjects of examination in each of the departments shall be the same as those prescribed for the Degree of B.D.
4. The examination shall be held at the same time as the examination for the Degree of B.D.
5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.
6. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in November, 1891, the examination being in Hebrew, New Testament Exegesis, and Apologetics. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before 3rd November, 1891.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal, and continued to do so annually.

In 1849, Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas

Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in November to the most distinguished graduate in Arts of the year.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *viva voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1893. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1891-92 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1892.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D., of this University, and Professor George Cook, D.D., of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MUIRHEAD PRIZES.—In 1776, Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

RAE WILSON GOLD MEDAL.—Dr. William Rae Wilson, of Kelvinbank, who died 2nd June, 1849, bequeathed the sum of £300, two-thirds of the interest of which he appointed to be applied annually to the purchase of a Gold Medal to be bestowed upon the Divinity student who shall produce the best Prize Essay on "The Life of our Adorable Redeemer, Jesus Christ; His Righteousness, Atoning Death, and that Everlasting Benefit arising from these blessings to a lost and miserable world."

JOHN REID PRIZE.—A Prize of the value of £25 has been founded by Miss Mary Reid, 15 Woodside Quadrant, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. Competitors must be registered students of medicine (not in possession of a legal qualification) of not less than two years' standing at the date of application, and they will require to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within two years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurll, jun., writer, 121 West Regent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870, by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the Medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

WATT PRIZE.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who have completed, or who, at the end of the session in which the Prize is awarded, shall have completed a regular course of study in Languages and Philosophy, may be competitors.

4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION* 1891-92.

A.—FACULTY OF ARTS.

1. BURSARIES.

The greater number of the Faculty of Arts Bursaries in the patronage of the Senate are awarded in accordance with the results of the Annual Bursary Examinations held at the commencement of the Winter Session. The various open Bursaries are awarded, according to their respective values, to those who stand highest in the List published by the Examiners. In the case of Bursaries restricted to the inhabitants of particular localities, the competitors have to undergo the same examination as those competing for open Bursaries, and the Bursaries are awarded to those students among the qualified candidates who pass the best examination. The Faculty of Arts are ready to receive at the same time for examination candidates for any Local Bursaries who may be sent to them.

The Examination for these Bursaries is combined with the Preliminary Examinations in Latin, Greek, and Mathematics, and comprises papers in Latin and Greek Grammar and Syntax, Latin Prose Composition, translations of passages from ordinary Latin and Greek Authors, Mathematics (see page 120), together with questions to test general knowledge and facility of composition in English.

The competitors for all Arts Bursaries, for students entering the first or second session, are examined on the same set of papers; but the same standard of excellence is not expected from candidates for Bursaries for which the competition is restricted, as from candidates for open Bursaries; and in the case of Bursaries restricted to particular localities, or particular names or classes, students who show satisfactory knowledge of Latin and Greek Grammar, and of Arithmetic, with the Elements of Mathematics, will be considered to have done well enough to have a Bursary awarded to them.

For Students Entering the First Session in Arts.

1. *Black Bursary*, annual value £21, tenable for four years—open.

2. *Brown Bursary*, annual value £6 13s. 4d., tenable for four years—open.

3. *Forfar Bursary*, annual value £30, tenable for four years—open.

4. *Foundation Bursary*, annual value £10, tenable for four years—open.

5. *General Council Bursary*, annual value £20, tenable for three years—open.

6. *M'Grouther Bursary*, annual value £20, tenable for four years—open.

7. *M'Grouther Bursary*, annual value £15, tenable for four years—open.

8. *Scott Bursary*, annual value £25, tenable for four years—open.

9, 10, 11, 12, 13, and 14. *Six John Clark* (*Mile-end*) *Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

15. *Barbour Kilbarchan Bursary*, annual value about £16, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

16, and 17. *Two Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

18. *Brand Bursary*, annual value about £24. tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

19. *Brown-Paton Bursary*, annual value about £16, tenable for three years. Preference to natives of Loudon or Galston, whom failing, to natives of any other part of Ayrshire.

20. *Browne* (*Ayrshire*) *Bursary*, annual value about £20, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in a school in Ayrshire.

21. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

22. *Davidson Bursary*, annual value £40, tenable for three years. Preference, *cæteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahagow, and Loudon.

23. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

24. *James Ewing Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October.

25, 26, and 27. *Three Fullarton of Overton Bursaries*, annual value £15 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects of Examination—Latin, Elementary Mathematics, and English.

28. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October.

29 and 30. *Two Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

31, 32, 33, 34, and 35. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended two sessions in the secondary department of Hutchesons' Grammar School. Apply to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

36. *Lochhead and Mitchell Bursary*, annual value £32, tenable for four years. Preference to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland.

37 and 38. *Two Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to William Mitchell, Esq., 134 Wellington Street, Glasgow, before the first day of October.

39, 40, 41, 42, 43, 44, and 45. *Seven Orr Ewing* (*Dumbartonshire*) *Bursaries*, annual value £25 each, tenable for four years, open only to candidates under 17 years of age from public or State-aided schools in the County or Presbytery of Dumbarton.

46. *First Patrick Bursary*, annual value about £80, tenable for two years, for students from Renfrewshire.

47. *Glasgow Perthshire Society Bursary*, annual value £25, tenable for three years, for students connected with the county of Perth. Apply to Mr. George Gray, writer, County Buildings, Glasgow, on or before 1st October.

48. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

49 and 50. *Two Ramsay-Walker Bursaries*, annual value £12 each, tenable for four years, for students preparing for the Ministry of the Established Church of Scotland. Preference to kin of founder; whom failing, to students of name of Walker; whom failing, to natives of Glasgow.

51. *Stevenson of Dalry Bursary*, annual value about £33, tenable for four years, for students preparing for the Ministry of the Church of Scotland. Preference to natives of Dalry in Ayrshire; whom failing, to natives of Bannockburn or St. Ninians in Stirlingshire.

52. *Stewart Bursary*, annual value £15, tenable for four years, for students of the name Stewart or Simpson.

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 2, 3, 4, 5, 8, 18, 19, 22, 25, 26, 27, 51, 52, in the preceding list.

53. *Park General Council*, annual value £20, tenable for two years—open.

FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.

54. *Lorimer Bursary*, annual value £25, tenable for three years. The examination will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

55. *Lorimer Bursary*, annual value £25, tenable for three years. Subjects of Examination—Professor Veitch's *Institutes of Logic, Part I.* (large print only); Descartes (English translation of 1879, or subsequent edition), *Introduction*, Sections I., II., III.; *Discourse on Method*; *Meditations*, I. and II.; Spalding's *English Literature*, pp. 169–269; Milton's *Paradise Lost*, Book I.; Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

56. *John Ferguson Jaffrey Bursary*, annual value £34, tenable for two years. The subjects of examination are the same as for the Lorimer Bursary, No. 55.

FOR STUDENTS IN ARTS, WITHOUT RESTRICTION TO A PARTICULAR SESSION.

57. *James Ferguson Bursary*, annual value £80, tenable for two years. Preference, *cæteris paribus*, to natives of Lesmahagow, or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for honours in the department of Mathematics.

58. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in French.

59. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1892-93, 1893-94. The appointment will be determined by the results of the written examinations passed in the course of the session 1891-92 by the public students of the upper junior class of Mathematics.

60. *Muir Senior Bursary in Mathematics*, annual value, £18, tenable for session 1892-93. The appointment will be determined by the results of the written examinations passed in the course of the session 1891-92 by the public students of the Senior Mathematical Class.

61 and 62. *Two Muir Bursaries in Civil Engineering and Mechanics*, annual value, £12 10s. each, tenable for session 1892-93.

2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

63. *George A. Clark Scholarship in Mathematics*, annual value about £175, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics, but no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

64. *Eglinton Fellowship in Mathematics and Natural Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts who have graduated in April or November 1891.

65. *Eglinton Fellowship in Classics*, annual value £100, tenable for two years. Open to Glasgow Masters of Arts who have graduated in April or November 1891.

66. *William Euing Fellowship in Classics*, annual value £80, tenable for four years. Open to Glasgow Masters of Arts.

67. *William Euing Fellowship in Mental Philosophy*, annual value £80, tenable for three years. Open to Glasgow Masters of Arts.

68. *John Clark (Mile-end) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

69. *John Clark (Mile-end) Scholarship in Mental Philosophy*, annual

value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

70. *John Clark (Mile-end) Scholarship in Natural Science*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

71. *Clydebank Scholarship in Naval Architecture*, annual value £10, tenable for two years. Open to young men not under eighteen years of age, who have been employed at least three years as working apprentices, or in the drawing offices of shipbuilding or engineering works situated in the districts of Clydebank, Yoker, or Dalmuir.

72. *Snell Exhibition*, value about £133 a year, for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

73. *Armagh Bursary*, annual value £25, tenable for three years. Open to Masters of Arts in their first session of Theology, Law, or Medicine. The most distinguished graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

74. *Gladstone Historical Prize* of £21, open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation.

75. *Thomas Logan Memorial Medal and Prize* will be awarded in November to the most distinguished graduate in Arts of the year.

DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 53 inclusive in the above list, will commence on Tuesday, 27th October, at 10 a.m. The examination papers will be given in the following order, viz.:—

On Tuesday, 27th	October,	at 10 a.m.,	Latin (1st paper).
,,	,,	1 p.m.,	Latin (2nd paper).
,,	,,	3.30 p.m.,	Latin (3rd paper).
On Wednesday, 28th	October,	at 10 a.m.,	Mathematics (1st paper).
,,	,,	2 p.m.,	English.
On Thursday, 29th	,,	at 10 a.m.,	Greek (1st paper).
,,	,,	2 p.m.,	Greek (2nd paper).
On Friday, 30th	,,	at 10 a.m.,	Mathematics (2nd paper).

The examinations for Bursary No. 54, will be held on Wednesday, 28th October, and Friday, 30th October, at 10 a.m. each day; for Bursaries Nos. 55 and 56, on Saturday, 31st October, Wednesday, 4th November, and Thursday, 5th November, at 10 a.m. each day; for Bursary No. 57, on Friday, 6th November, at 11 a.m. and 3 p.m., and Saturday, 7th November, at 10 a.m. and 2 p.m.; and for Bursary No. 58, on Saturday, 31st October, at 2 p.m.

The examinations for the Scholarships and Fellowships, Nos. 63 to 71 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the degree of M.A., in October and November, 1891; for No. 72, along with the examinations for Honours, in April, 1892, the English paper being taken on Saturday, 9th April, at 10 a.m.; and for the Prize No. 74, in January, 1892.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 54 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Tuesday, 20th October; and for Bursaries Nos. 55 to 58, not later than Thursday, 1st October. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 24 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October; for No. 28 to Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October; for Nos. 29 to 35 to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October; for Nos. 37 and 38 to William Mitchell, Esq., 134 Wellington Street, before the first day of October.

Candidates for the Fellowships, etc., Nos. 63 to 71 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October; for No. 72, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than the 1st December, 1891; and for Nos. 73 and 74, candidates are required to send their names to the Assistant Clerk (Matriculation Office) on 1st December, 1891.

B.—FACULTY OF DIVINITY.

Open to Competition during Session 1891-92.

1. *Brown or Ettles Bursary*, annual value £21, tenable for three years. Open to students of Theology of the first year who have passed all the examinations for graduation in Arts, with a preference, *cæteris paribus*, to such as can speak Gaelic.
2. *Hastie Bursary*, annual value £25, tenable for three years. Open to competition to Masters of Arts of any Scottish University entering upon their first or second year in Divinity.
3. *Lorimer Bursary*, annual value £25, tenable for three years. Open to Students entering the Divinity Hall.
4. *James Macfarlane Bursary*, annual value £36, tenable for three years. Open to students entering upon the study of Divinity, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts, with a preference to the name Macfarlane.
5. *Matthew A. Muir Bursary*, annual value £36, tenable for three years. Open to students of Divinity of the first year who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts.
6. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University.

Apply to the Rev. Dr. Robertson, Hutchesons' Buildings, Ingram Street, on or before the third day of November.

7. *The Findlater Scholarship Prize*, value about £38 sterling, for an examination in Hebrew, New Testament Exegesis, and Apologetics. Open to Divinity students who have completed the ordinary course in Session 1890-91, or who shall complete it in Session 1891-92.

8. *The Jamieson Prize*, value about £10 sterling, for an examination in Hebrew, New Testament Exegesis, and Apologetics. Open to Divinity students who have completed the ordinary course in Session 1890-91, or who shall complete it in Session 1891-92.

9. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

10 and 11. *Two Dowanhill Prizes*, one of £21, and the other of £10 10s., for Elocution. Open to students of Divinity of the third year.

DATES AND SUBJECTS OF EXAMINATIONS.

The Examinations for Nos. 1 to 8 inclusive, in the above list, will be held on Thursday, 12th November, and Friday, 13th November, at 10 a.m. each day.

The following are the subjects of examination for Bursaries Nos. 1 to 6.

LATIN.—Livy, Book XXI. Horace, *Odes*, Book III. Translation from English into Latin.

GREEK.—Xenophon, *Memorabilia*, Book III. The Acts of the Apostles.

LOGIC.—Jevons, *Elementary Lessons in Logic.*

MORAL PHILOSOPHY.—Sidgwick, *Outlines of the History of Ethics*—Chapters I. and IV.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapters VI. and XI.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Balfour Stewart, *Elementary Physics*, Books I., II., and VII.

The subjects of examination for Prizes Nos. 7 and 8 are the same as for the *First* Department of the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 9 for Session 1891-92 are as follows :—

GREEK.—Mark i. 1-x. 45. Sophocles, *Electra.*

DIVINITY.—Doctrine of Sin. Biblical Theology—Pauline Doctrine of Sin, of Law, and of Justification.

HEBREW.—Genesis xxvi.-l. (Text and Exegesis); Isaiah xv.-xxxv. and Psalms xix.-xli. (Text, Exegesis, and Introduction).

CHURCH HISTORY.—Period of the General Councils from A.D. 325 to A.D. 879.

MORAL PHILOSOPHY.—Ferrier, *Lectures on Greek Philosophy.*

DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 9 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office) not later than 3rd November, 1891 ; and for the Prizes Nos. 10 and 11, to the Professor of Divinity not later than 20th March, 1892.

C.—FACULTY OF LAW.

Andrew Cunninghame Scholarship, annual value about £32, tenable for two years, will be awarded in November, 1891, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Scots Law.

For the Armagh and the James Ferguson Bursaries, see Nos. 73 and 57 under Faculty of Arts.

D.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £30, tenable for one year, open to medical students who have attended the Lectures on Insanity.

2. *Lorimer Bursary*, annual value £25, tenable for three years, open to medical students entering on their second session.

3. *Rainy Bursary*, annual value £20, tenable for two years, open to students entering on their third session of medical study.

4. *John Monteith Bursary*, annual value about £20, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in April and October, 1891.

5. *Andrew Weir Bursary*, annual value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

6. *Merchants' House Bursary*, annual value £25, tenable for four years, open to students entering on their first winter session of medical study.

7. *Macarthur Bursary*, annual value £20, tenable for two years. [Awarded to Johnston Brown in April 1891.]

8. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

9. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their Medical studies.

10. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in medicine of the year.

11. *Alexander Donaldson Scholarship*, annual value about £38, tenable for two years, will be awarded in April to the student who, presenting himself for the first examination for B.Sc., stands highest in Chemistry.

DATES OF EXAMINATIONS.

The Examinations for the Bursary No. 1 in the above list will be held early in July; for Nos. 2 and 3 on Monday and Tuesday, 5th and 6th October, at ten A.M. each day; for No. 6, on Tuesday, 27th October, and three following days; and for the Prizes Nos. 8 and 9, on Saturday, 7th November, at two P.M.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office) not later than 15th June; for Bursaries 2 and 3 not later than 17th September; for Bursary No. 6, and for Prizes 8 and 9, not later than 1st October. Candidates for No. 6 must, besides, give in their names to the Clerk of the Merchants' House not later than 1st October.

5.—*UNIVERSITY PRIZE ESSAYS.*

FOR SESSION 1891-92.

1. In THEOLOGY, the CLELAND GOLD MEDAL, for the Best Essay on "The Didaché: its origin and bearing on the doctrine and government of the early Church." All Students of Divinity in Session 1890-91 or 1891-92, may be Competitors.

2. In NATURAL PHILOSOPHY, the CLELAND GOLD MEDAL, for the Best Experimental Investigation on the effect produced by mechanical hardening on the electric resistance of metals. All Students of the Natural Philosophy Class in Session 1890-91, or Session 1891-92, may be Competitors. [Essays may be given in as late as 7th March, 1892.]

3. In MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the Best Essay on "Recent Investigations in Psycho-physics." All Students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1890-91, or 1891-92, may be Competitors.

4. The GARTMORE GOLD MEDAL, for the Best Essay on "State Interference with Labour." All Matriculated Students of the University in Session 1891-92 may be Competitors.

5. A WATT PRIZE OF TEN POUNDS, for the Best Essay on Recent Experimental Investigations upon the efficiency of Steam Engines. For the Watt Prize all Matriculated Students of the University in Session 1891-92, who have finished, or who, on the 1st of May, 1892, shall finish a regular course of Languages and Philosophy, may be Competitors. [Essays may be given in as late as 7th March, 1892.]

6. A COULTER PRIZE OF FIVE POUNDS, for the Best Essay on "The Ethics of Shakespeare."

7. A COULTER PRIZE OF FIVE POUNDS, for the Best Latin Essay on "The effect of Stoicism upon Roman Law and Roman Character." [Competitors are recommended to consult especially Maine's *Ancient Law.*]

For the Coulter Prizes all Matriculated Students of the University in Session 1891-92 may be Competitors.

8. The Rae Wilson Gold Medal, for the Best Essay on "The Messianic Consciousness of Jesus in relation to the Messianic ideas of His time." All Students attending the Divinity Class in Session 1891-92 may be Competitors.

9. The Henderson Prize of Twenty Guineas, for the Best Essay on "The Sabbatism of Hebrews iv. 9." All Matriculated Students of the University in Session 1891-92 may be Competitors.

10. The Dobbie-Smith Gold Medal, for the Best Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the Essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All Matriculated Students of Session 1891-92, or of the preceding Summer Session, may be Competitors.

The Essays, with the exceptions noted above, must be given in to the Principal, on or before Saturday, 14th November, 1891, after which day none can be received. Each must be distinguished by Two Mottoes, and accompanied by a sealed letter bearing on the outside the same Mottoes, and containing a declaration subscribed by the author that the Essay is entirely of his own composition. All quotations in the Essays must be carefully marked, and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the Prize for any subject if none of the Essays on that subject reaches a sufficiently high standard of merit.

VIII.—HONOUR LIST.

LIST OF NAMES OF GENTLEMEN WHO HAVE TAKEN DEGREES WITH HONOURS SINCE THE YEAR 1836.

MASTERS OF ARTS (M.A.)

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1836	John Cunningham,	Scotland,	...	...	I	...
,,	William Fulton,	do.,	II	II	..	...
1837	Richard Shaen,	England,	...	...	II	...
,,	Thomas E. Richardson,	do.,	...	...	II	...
,,	John Blair,	Ireland,	...	...	II	...
,,	William Cuthel,	Scotland,	...	...	II	...
1840	Duncan H. Weir,	do.,	...	...	II	...
,,	James Thomson,	do.,	...	...	II	...
,,	John Buchanan,	do.,	...	...	II	...
1841	John D. Morell,	England,	II	II	...	...
,,	William Arthur Jones,	Wales,	II	II	...	...
1842	Alexander Grierson,	Scotland,	...	...	II	...
,,	John Davies,	England,	II	II	...	...
1843	Nathaniel Haycroft,	do.,	II	II	...	...
,,	John Trafford,	do.,	II	II	...	...
,,	David Duff,	Scotland,	...	...	II	...
1844	John Morgan,	do.,	...	...	II	...
,,	John Thomson,	do.,	...	...	II	...
,,	William T. Ker,	do.,	...	...	II	...
,,	Richard Tomlinson,	England,	II	II	...	...
,,	David M'Lauchlan,	Scotland,	II	II	...	...
1846	Robert Graham,	do.,	...	...	II	...
1847	William John Steele,	Ireland,	...	...	II	...
,,	James Porter,	do.,	...	...	II	...
1848	Adam Milroy,	Scotland,	II	II	...	...
,,	Walter D. Jeremy,	England,	II	II	...	...
1849	John Ker,	Scotland,	...	...	I	...
,,	George M'Queen,	do.,	...	...	I	...
,,	Henry Martyn Barker,	England,	I	I	...	...
,,	John Newton Langley,	do.,	I	I	...	...
1850	Alexander Walker,	Scotland,	II	II	...	...
,,	Horatio Lindsay Taplin,	England,	II	II	...	...
,,	Robt. Masters Theobald,	do.,	II	II	...	...
1851	Carstairs Douglas,	Scotland,	...	...	II	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1851	Daniel Davies Jeremy,	England,	II	II	...	...
1852	Thomas Logan,	Scotland,	...	...	II	...
,,	James Wylie Johnston,	do.,	II	II	...	...
1853	Chas. Abercromby Smith,	do.,	...	...	I	...
,,	William Jack,	do.,	...	...	I	...
,,	Edward Gibbs,	England,	I	I	...	...
1856	James Galbraith,	Scotland,	...	...	II	...
,,	John Murray,	do.,	...	...	II	...
1857	Joseph D. Everett,	England,	II	II	I	...
,,	George M. Grant,	Nova Scotia,	...	I	...	...
,,	David Herbert,	Scotland,	...	II	...	...
,,	Neil M‘Pherson,	do.,	II	II	...	...
1858	William R. Pattison,	do.,	II	II	...	...
,,	John Weir,	do.,	...	II	...	...
1859	Robert Whyte,	do.,	...	II	...	...
1860	George Porter,	do.,	II	II	...	...
,,	Joseph Gardner,	do.,	...	II	...	...
,,	Walter Roberts,	do.,	...	II	...	...
1861	Richard Vary Campbell,	do.,	...	I	...	...
,,	Daniel Munro,	do.,	II	...	...	...
,,	Peter Sinclair Menzies,	do.,	II	...	...	...
1862	John M‘Lean,	do.,	II	II	...	...
,,	Thomas Carruthers	do.,	II	II	...	...
,,	William Stewart,	do.,	II	II	...	...
,,	George Mathieson,	do.,	...	II	...	...
,,	Henry W. Bell,	India,	...	II	...	...
,,	John Ferguson,	Scotland,	...	...	...	I
1863	David Thomas,	do.,	...	II	...	...
1866	John Mann,	do.,	I	...	...	...
,,	John Fergusson,	do.,	...	II	...	...
1867	William E. Grigsby,	England,	II	...	...	...
,,	James Smith,	Scotland,	...	...	I	...
,,	William Ross,	do.,	...	...	II	...
1868	Robert Stewart,	do.,	...	I	...	...
,,	John Wilson,	do.,	...	I	...	...
1869	Favour James Greg,	do.,	...	I	..	...
,,	Adam Semple,	do.,	...	I	...	...
,,	Joseph Loudon,	do.,	...	...	II	...
,,	James M‘Intosh,	do.,	...	I	...	...
1870	John Cross,	U. S. A.,	I	I	...	...
,,	Matthew M. Dickie,	England,	II	I	...	...
,,	James Orr,	Scotland,	...	I	...	...
,,	Robert A. Sinclair,	do.,	...	II	...	...
,,	James D. H. Dickson,	do.,	...	...	II	...
,,	Dugald M‘Kichan,	do.,	...	...	II	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1871	William S. Fleck,	Scotland,	...	I	...	...
,,	William Oliver,	Wales,	...	II	...	...
,,	John E. H. Thomson,	Scotland,	...	II	...	...
,,	Colin R. M'Clymont,	do.,	...	I	...	...
,,	Charles S. Dickson,	do.,	...	II	II	...
1872	William Hamilton,	do.,	...	I	...	...
,,	John Watson,	do.,	...	I	...	...
,,	Zachary M. H. Ross,	do.,	...	II	...	...
,,	Archibald Russell,	do.,	...	II	...	...
,,	William G. Miller,	do.,	...	...	II	...
,,	John M. Brown,	do.,	...	I	...	...
,,	Alexander S. Macphee,	do.,	...	I	...	...
,,	James C. MacTaggart,	do.,	...	...	I	...
,,	James Henderson,	do.,	...	...	II	...
1873	William Bathgate,	do.,	I	...	...	...
,,	John M'Cunn,	do.,	...	I	...	..
,,	T. Lindsay Galloway,	do.,	...	...	I	...
,,	David Hunter,	do.,	II	I	...	...
,,	Robert Harvey,	do.,	I	...	...	...
,,	Thomas H. Miller,	do.,	...	...	I	...
,,	Buchanan Blake,	do.,	...	II	...	...
,,	James Arthur,	do.,	...	...	II	...
1874	James Bonar,	do.,	I	I	...	...
,,	James G. Frazer,	do.,	I	...	...	...
,,	Alexander F. Fraser,	do.,	...	I	...	...
,,	John Wilson Reid,	do.,	I	...	II	...
,,	Colin Campbell,	do.,	II	I	...	...
,,	James Thomson,	do.,	...	I	...	...
,,	Hugh Hart Currie,	do.,	II	...	...	...
,,	James MacKay,	do.,	II	...	...	...
1875	Benj'n F. C. Costelloe,	Ireland,	II	I	...	...
,,	William Yuill King,	Scotland,	I	...	...	...
,,	William Patrick,	do.,	...	I	...	...
,,	John Patrick,	do.,	II	...	...	...
,,	James S. Russell,	do.,	...	...	I	...
,,	John C. Watt,	do.,	...	...	I	...
,,	John B. Douglas,	England,	II	...	...	...
,,	Neil D. MacLachlan,	Scotland,	...	II	...	...
,,	James Johnston Dobbie,	do.,	...	...	...	I
1876	James Lambie,	do.,	...	I	..	...
,,	Ebenezer B. Speirs,	do.,	...	I	...	...
,,	Islay F. Burns,	do.,	II	...	...	...
,,	Robert MacLehose,	do.,	...	II	...	...
,,	Joseph Conn,	do.,	...	...	II	...
,,	Robert H. Pinkerton,	do.,	...	...	II	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1876	David Wilson,	Scotland,	...	...	II	...
,,	John P. Mitchell,	do.,	...	I	...	...
,,	William M. Rankin,	do.,	...	I	...	...
,,	Andrew Gray,	do.,	...	...	II	...
1877	Wallace M. Lindsay,	do.,	I	II	...	...
,,	Alexander S. Wilson,	do.,	...	...	...	I
,,	James Kidd,	do.,	...	I	...	...
,,	Thomas B. Kilpatrick,	do.,	...	I	...	...
,,	Mungo W. M'Callum,	do.,	...	II	...	...
,,	William Allan,	do.,	...	...	II	...
,,	James Arthur,	do.,	...	...	II	...
1878	Robert Mackintosh,	do.,	II	I	...	...
,,	John Edgar,	do.,	I	...	...	...
,,	John M. Dodds,	do.,	...	...	I	...
,,	David W. Forrest,	do.,	...	II	...	...
,,	Alexander Isdale,	do.,	...	I	...	...
,,	Lewis A. Muirhead,	do.,	...	I	...	...
,,	James Wilson,	do.,	II	...	II	...
1879	John Wilson Marshall,	do.,	I	II	...	...
,,	Francis Wm. Clark,	do.,	II	II	...	...
,,	Henry Jones,	Wales,	...	I	...	...
,,	William T. Bankhead,	Scotland,	...	II	...	...
,,	Andrew Rutherfurd,	do.,	...	II	...	...
,,	James Thomson,	Ireland,	...	...	II	...
,,	James Denney,	Scotland,	I	I	...	...
,,	James Kippen Duff,	do.,	I	...	...	...
,,	Robt. Tannahill Younger,	do.,	..	II	...	...
,,	William L. Macindoe,	do.,	...	...	II	...
1880	Alexander Gregory,	do.,	II	...	...	...
,,	Thomas Gregory,	do.,	I	I	I	...
,,	Alexander N. Cumming,	do.,	II	II	...	...
,,	Hugh Young Reyburn,	do.,	II	II	...	...
,,	John G. A. Dow,	do.,	II	...	...	...
,,	John Henderson,	do.,	...	II	...	...
1881	Cecil J. Swan,	do.,	II	...	...	...
,,	Francis H. Stead,	England,	II	I	...	...
,,	David S. Adam,	Scotland,	...	I	...	...
,,	William Granger,	do.,	...	I	...	...
,,	Robt. F. Muirhead, B.Sc.,	do.,	...	...	I	...
,,	Alexander Russell,	do.,	...	...	I	...
,,	Patrick H. Aitken,	do.,	II	...	...	...
,,	Alexander Anderson,	do.,	II	...	...	...
,,	Robert T. Loudon,	do.,	...	II	...	...
,,	Robert Veitch,	England,	...	II	...	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1881	James Maclay,	Scotland,	...	...	II	...
,,	John Stuart,	do.,	...	...	II	...
,,	James Hamilton,	do.,	...	...	II	...
1882	James A. M'Callum,	do.,	...	I	...	...
,,	John H. Fullarton,	do.,	...	...	...	I
,,	Charles P. Blair,	do.,	...	II	...	...
,,	James M. Dodds,	do.,	I	...	...	...
,,	John S. MacKenzie,	do.,	...	I	...	...
,,	William Smart,	do.,	...	I	...	...
,,	John Weir,	do.,	...	...	I	...
,,	John Gray,	do.,	...	II	...	...
,,	Charles Steele,	do.,	...	II	...	...
1883	John Aitken Orr,	do.,	...	I	...	...
,,	Alexander Robinson,	do.,	...	II	...	...
,,	Lewis Hughes,	Wales,	...	II	...	..
,,	Francis Anderson,	Scotland,	...	I	...	...
,,	Wm. S. M'Kechnie,	do.,	...	I	...	...
,,	William Muir,	do.,	...	I	...	...
,,	James W. Inglis,	do.,	II	...	...	...
,,	Patrick H. Hutchinson,	Ireland,	II	...	...	...
,,	Robert A. Moody,	Scotland,	II	...	...	...
,,	William T. Mitchell,	do.,	...	...	II	...
1884	Andrew A. Mitchell,	do.,	I	..	...	...
,,	James M'Millan,	do.,	I	...	...	...
,,	Archd. S. Laidlaw,	do.,	...	I	...	...
,,	John Mack,	do.,	...	...	I	...
,,	William Clark,	do.,	II	...	...	..
,,	John Struthers,	do.,	II	I	...	...
,,	Archibald M'Laren,	do.,	I	...	...	...
,,	John Adams,	do.,	...	I	...	...
,,	James Barr,	do.,	...	I	...	...
,,	Gavin Lambie,	do.,	...	I	...	...
,,	Robert M. Wenley,	do.,	...	I	...	...
,,	George G. Henderson,	do.,	...	...	...	I
,,	Campbell N. Moody,	do.,	II	II	...	...
,,	Hugh Stevenson,	do.,	...	II	...	...
,,	James Strachan,	do.,	...	...	II	...
,,	Alex. B. Symington,	do.,	II	...	...	...
1885	John Lee,	do.,	I	...	...	...
,,	James Buchanan,	do.,	...	...	I	...
,,	Norman Fraser,	do.,	...	...	I	...
,,	James P. M'Laren,	do.,	II	...	...	...
,,	William Binnie,	do.,	...	II	...	. .
,,	David Frew,	do.,	...	II	...	...
,,	Richard Glaister,	do.,	...	II	...	...
,,	David Houston,	do.,	...	II	...	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1885	Walter Wingate,	Scotland,	...	...	II	...
,,	William M. Mackay,	do.,	...	I	...	...
,,	Andrew F. Smith,	do.,	...	I	...	...
,,	Alex. L. Watson,	do.,	II	...	...	...
,,	Archibald J. Macnicol,	do.,	...	...	II	...
1886	Charles F. Fleming,	England,	...	I	...	...
,,	Wellstood A. Watt,	Scotland,	...	I	...	...
,,	John Dougall,	do.,	...	...	I	...
,,	John M'Cowan, B.Sc.,	do.,	...	...	I	...
,,	William H. Carslaw,	do.,	...	...	II	...
,,	Magnus M'Lean,	do.,	...	...	II	...
,,	John A. Cramb,	do.,	I	...	...	...
,,	Robert A. Duff,	do.,	...	I	...	...
,,	William Johnston,	do.,	...	II	...	...
,,	James Macmillan,	do.,	...	...	II	...
,,	Robert A. Nicolson,	do.,	...	...	II	...
1887	James Finlayson,	do.,	...	...	II	...
,,	James Gifford,	do.,	...	II	...	...
,,	Charles Mackay Gordon,	W. Indies	...	I	...	...
,,	David Smith,	Scotland,	I	...	...	...
,,	John Watson Bryson,	do.,	...	I	...	...
,,	Robert Gardner,	do.,	...	II	...	...
,,	James Gilfillan,	do.,	...	I	...	...
,,	Daniel Kirkwood,	do.,	...	II	...	...
,,	Alexander Lucas Taylor,	do.,	II	...	...	...
,,	John Thomson,	do.,	...	...	II	...
1888	John Esslemont Adams,	do.,	II	...	...	...
,,	Archibald Lamont,	do.,	...	II	...	...
,,	Arthur David Millar,	do.,	I	...	...	...
,,	John Dickson Sinclair,	do.,	...	II	...	...
,,	Evan Keri Evans,	Wales,	...	I	...	...
,,	Robert Kennedy, B.Sc.,	Scotland,	...	...	...	I
,,	John Liddle King,	do.,	...	II	...	...
,,	Malcolm Macnicol,	do.,	...	...	II	...
,,	Ernest Findlay Scott,	England,	I	I	...	...
,,	Robert Scrymgeour,	Scotland,	...	I	...	...
,,	Robert Reid Strachan,	do.,	...	II	...	...
,,	John Cunningham Walker,	do.,	...	II	...	...
1889	Norman de Garis Davies,	England,	...	II	...	...
,,	George Davidson Kempt,	Scotland,	...	II	...	...
,,	Alfred Ernest Garvie,	Poland,	...	I	...	...
,,	John Hunter Harley,	Scotland,	...	I	...	...
,,	John Brownlee,	do.,	...	...	I	...
1890	James Fairlie Gemmill,	do.,	I	...	...	...
,,	John Edgar M'Fadyen,	do.,	I	...	...	...
,,	James Robertson Cameron,	do.,	...	I	...	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1890	James Moffatt,	Scotland,	II	...	...	...
,,	James Peter Wilson,	do.,	II	...	...	...
,,	John Easton Black,	do.,	...	II	...	...
,,	George Douglas Brown,	do.,	I	...	...	...
,,	Robert Bulloch Douglas,	do.,	...	I	...	...
,,	Peter Pinkerton,	do.,	...	...	I	...
,,	Douglas Blyth Binning,	do.,	...	II	...	...
,,	Robert Baillie Douglas,	do.,	...	II	...	...
,,	James Hair Maclean,	do.,	...	II	...	...
,,	Gilbert Buchanan,	do.,	..	...	II	...
,,	Alexander Holm,	do.,	...	...	II	...
1891	John Hamilton Pagan,	do.,	I	...	...	...
,,	John Gillies,	do.,	II	...	...	...
,,	John M'Gilchrist,	do.,	II	...	...	...

BACHELORS OF SCIENCE (B.Sc.).

			Honours.	
			Natural Science.	Engineering Science.
1879	Robert F. Muirhead, C.E.,	Scot.,		Math. & Nat. Phil. II
1882	John Cleland, C.E.,	Scotland,		Math. & Nat. Phil. II
1883	John M'Cowan, C.E.,	do.,		Math. & Nat. Phil. II
1884	William Weir,	do.,		Math. & Nat. Phil. II
,,	James C. Todd,	India,	Math. & Nat. Phil. II	
1886	Laurence Crawford,	Scotland,		Math. & Nat. Phil. I
1887	Angus M'Lean,	do.,		Math. & Nat. Phil. II
1890	James Stanley Muir,	do.,	Chemistry.	
,,	Robert Watson Smith,	do.,	Chemistry.	
1891	James Fenwick,	Australia,		Civil Engineering.

BACHELORS OF ARTS (B.A.).

			Classics.	Mental Philosophy.
1838	William Makellar,	Scotland,.........	II	...
,,	Francis Tucker,	England,.........	II	...
1852	Samuel Crusha Sarjant,	do., ...	I	I
1856	David Johnston,	do., ...	..	II
1857	Andrew Moody,	Scotland,.........	...	II
,,	William T. Johnston,	do., ...	I	...
1858	John MacLeod,	do., ...	...	I
1861	Thomas Robinson,	England,.........	...	II

DOCTORS OF MEDICINE (M.D.). (*O. R.*) HONOURS.

1845	Alexander Lindsay,	Scotland.
,,	James Craigie Murray,	do.
,,	Francis Reynolds,	Ireland.
,,	John Brown,	Scotland.
,,	John Gardiner,	do.
,,	Donald Cameron,	Isle of Man.
,,	Adam Nicholson,	Scotland.
,,	John Duke,	Ireland.
1847	William Parry,	Wales.
,,	Robert Livingstone,	Scotland.
,,	Alexander B. Sharpe,	Scotland.
1848	Charles H. Hitchen,	England.
,,	James Steven,	Scotland.
,,	John Coates,	Ireland.
1849	Robt. Brown M‘Clelland,	Ireland.
,,	Thomas Nicholson,	Scotland.
,,	Robert Settle,	England.
,,	Richard Thomas Tracy,	Ireland.
,,	Matthew John Rae,	Scotland.
1850	John Ternan,	Ireland.
,,	John Henry Eddowes,	England.
,,	James Brash,	Scotland.
1851	Alexander Marshall,	do.
,,	Andrew Spearing,	Ireland.
,,	James B. Montgomery,	England.
,,	Robert Perry,	Scotland.
,,	John Watson, B.A.,	do.
1853	John Ritchie Brown,	do.
,,	Charles D. Campbell,	Ireland.

1853	Richard Stanistreet,	Ireland.
,,	David Knox,	do.
1854	John Lindsay Stewart,	Scotland.
,,	James Fraser Paton,	do.
,,	David Easton,	Ireland.
1855	William Leishman,	Scotland.
,,	William J. Lewis,	New Brunswick.
,,	Alexander Robertson,	Scotland.
1857	Thomas Beaumont,	Ireland.
,,	Joseph M. Fleming,	Scotland.
,,	Maxwell Rodgers,	Ireland.
1858	John Couper,	Scotland.
,,	Thomas M‘Call Anderson,	do.
1859	Daniel Dougal,	do.
1861	William Marshall,	America.
,,	John M. Murray,	Scotland.
1862	James A. Allan,	do.
1863	Robert M‘K. Duncan,	do.
,,	George M‘Donald,	do.
,,	Samuel J. Moore,	Ireland.
,,	William Fraser,	Nova Scotia.
,,	T. Algernon Chapman,	Scotland.
,,	Algernon Wood Smith,	do.
,,	John P. Atkinson,	England.
1864	John Wyber,	Scotland.
,,	J. G. Wilson, M.A.,	do.
1865	Arthur A. Jamieson,	England.
1867	Fred. H. Quaife, M.A.	Sydney, N.S.W.

DOCTORS OF MEDICINE (M.D.). (*N.R.*)

COMMENDED FOR THESIS.

1876. Gardner, William, M.B., England.
1877. Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."
1879. Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."
1880. Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."
1880. Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."
1881. Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
1881. Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
1881. Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
1881. Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."

1882. Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."
1882. Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
1882. Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
1883. Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
1883. Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
1884. Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
1884. Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
1884. Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."
1884. Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."
1885. Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."
1885. Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
1885. Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
1886. Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
1886. Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Uro-semiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."
1886. Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."
1886. Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
1886. Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
1887. Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
1887. Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
1887. Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
1887. Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
1888. Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
1888. Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
1888. Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
1888. Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
1889. Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
1889. Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
1889. Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
1890. Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
1890. Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
1891. Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."

BACHELORS OF MEDICINE (M.B.). Honours.

1866	Robert W. Forrest,	Scotland.
,,	Henry T. Pringle,	do.
1867	Ebenezer Duncan,	do.
,,	Joseph Coats,	do.
,,	James Finlayson,	do.
1868	Thomas Barr,	do.
,,	William MacLachlan,	do.
,,	Angus Macmillan,	do.
1869	James Coats,	do.
1871	David Wilkie,	do.
,,	John Aikman,	do.
1872	John D. Macdonald,	do.
,,	Samson Gemmell,	do.
1876	Geo. S. Middleton, M.A.,	do.
,,	Richard B. Macpherson,	do.
1877	Johan B. Knobel,	Africa.
,,	Donald Macphail,	Scotland.
,,	John Carlyle Johnstone,	do.
1877	Edward D. M. Mackellar,	Scotland.
1878	Alexander Fraser,	do.
,,	James Morton,	do.
,,	William Partington,	do.
,,	Lawrence A. Waddell,	do.
1879	William K. Peden,	do.
,,	Ralph D. Stevenson,	Australia.
1880	Andw. A. Hogarth, M.A.,	Scotland.
,,	J. M'Gregor-Robertson, M.A.,	do.
,,	John Lindsay Steven,	do.
1881	John More Young, M.A.,	do.
1882	Robert Beith,	do.
1883	John Innes Dunlop,	do.
1884	Charles O. Hawthorne,	England.
1886	Alexander Bryce,	Scotland.
,,	Wm. Snodgrass, M.A.,	U.S.A.
,,	John H. Carslaw, M.A.,	Scotland.
1887	William MacLennan,	do.

BRUNTON MEMORIAL PRIZE OF £10,

Awarded to the most distinguished Graduate in Medicine of the year.

1880. John Lindsay Steven, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.
1882. Robert Beith, M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.,
1884. Charles Oliver Hawthorne, M.B., C.M.
1885. Andrew Wilson, M.B., C.M.
1886. Alexander Bryce, M.B., C.M.
1887. William MacLennan, M.B., C.M
1888. Landel Rose Oswald, M.B., C.M.
1889. William Robert Jack, B.Sc., M.B., C.M.
1890. George Lamb, M.B., C.M.

THOMAS LOGAN MEDAL AND PRIZE,

Awarded to the most distinguished Graduate in Arts of the year.

1888. Ernest Findlay Scott, M.A.
1889. Alfred Ernest Garvie, M.A.
1890. John Edgar M'Fadyen, M.A.

IX.—DEGREE AND PRIZE LIST.

LIST OF DEGREES

CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING 1ST MAY, 1891.

DOCTORS OF DIVINITY (D.D.).

Rev. Joseph Agar Beet, Professor of Theology, Wesleyan College, Richmond.
Rev. Robert Blair, M.A., Minister of Cambuslang.
Rev. Thomas Campbell Finlayson, Minister of the Congregational Church, Rushholme, Manchester.
Rev. James Scott, Minister of Presbyterian Church, Hobart Town, Tasmania, Moderator-elect of the Federal Assembly of the Australasian Church.
Rev. Robert Stewart, B.D., Minister of New Greyfriars Church, Edinburgh.
Rev. Walter Ross Taylor, Minister of Free Church, Kelvinside, Glasgow.

DOCTORS OF LAWS (LL.D.).

Hugh Dickie, B.A., Rector of Kilmarnock Academy, President of Educational Institute of Scotland.
James Graham, Dean of the Faculty of Procurators, Glasgow.
Richard Claverhouse Jebb, D.Litt., Regius Professor of Greek in the University of Cambridge.
Andrew Macgeorge, Writer, Glasgow.
William Alexander Mackinnon, L.R.C.S.Ed., C.B., Director-General of Army Medical Department.
Sir Douglas Maclagan, M.D., Professor of Medical Jurisprudence in the University of Edinburgh.

BACHELORS OF DIVINITY (B.D.).

November, 1890.

Marshall Buchanan Lang, M.A.
John Martin Littlejohn, M.A.

April, 1891.

Duncan Hunter Brodie, M.A.
John Campbell, M.A.
William Campbell, M.A.
John Colville, M.A.
Norman de Garis Davies, M.A.
Edward James Gilchrist, M.A.
Henry Tod Gillison, M.A.
John Torrance, M.A.

BACHELORS OF LAWS (LL.B.).

November, 1890.

Gavin Braidwood, M.A.
John Kirkhope, M.A.

BACHELORS OF LAW (B.L.).

November, 1890.

Robert Lockhart Bryden.
James Coats, M.A.

April, 1891.

Alexander Mitchell Gray.
Andrew Gilmour Murray.
Frederick Alexander Macquisten.
John Newton Wyper.

DOCTORS OF MEDICINE (M.D.).

July, 1890.

I. COMMENDED FOR THESIS.

Alexander Milne Bankier, M.B., C.M., England. (Thesis—"Influenza.")

II. ORDINARY DEGREE.

William Grant, M.B., C.M., Scotland. (Thesis—"Lateral Curvature of the Spine, with special reference to its Pathology and Treatment.")

John Archibald Jackson, M.B., C.M., England. (Thesis—"Clinical Observations relating to the Parasitic Origin of some of the commoner Preventible Diseases.")

John Livingstone, M.B., C.M., Scotland. (Thesis—"Goitre, with special reference to its Ætiology.")

John Ingham MacArthur, M.B., C.M., Scotland. (Thesis—"Antiseptics, Disinfectants, and Disinfection.")

David Theophilus Richard, M.B., C.M., Wales. (Thesis—"Fourteen cases as illustrations of Surgery as seen in a colliery practice.")

James Shaw, M.B., C.M., Scotland. (Thesis—"The Interpretation of the Analysis of Deep or Artesian Well Water.")

Alfred Williams, M.B., C.M., England. (Thesis—"Puerperal Eclampsia, being a record of six cases, with critical remarks upon the Symptoms, Pathology, and Treatment.")

Robert Wilson, M.B., C.M., Scotland. (Thesis—"Notes on the recent Epidemic of Influenza.")

James Young, M.B., C.M., Scotland. (Thesis—"Dietetics in Health and Disease.")

November, 1890.

Duncan William Currie, M.B., C.M., Scotland. (Thesis—"Goitre; with special reference to its prevalence in the Devon Valley.")

April, 1891.

I. WITH COMMENDATION.

John Macdowal Smith, M.B., C.M. Scotland. (Thesis—"The Disposal of Sewage and City Refuse.")

II. ORDINARY DEGREE.

John Allan, M.B., C.M., Scotland. (Thesis—"Dipsomania.")

Matthew Henry Bland, M.B., C.M., England. (Thesis—"The Diagnosis and Treatment of Acute Intestinal Obstruction.")

Hugh Mackay, M.B., C.M., Scotland. (Thesis—"Phlebitis and the Puerperal State.")

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B. AND C.M.).

May, 1890.

Peter Letwitch Lawrence, India.

July, 1890.

I. HIGH COMMENDATION.

1.	[1] George Lamb,	Scotland.
2.	Lewis Robertson Sutherland,	Gibraltar.
3.	John Calderwood,	Scotland.

II. COMMENDATION.

1.	Peter Henderson Abercrombie,	Scot.
2.	John Munro Campbell,	Scotland
3.	Gilbert Petgrave Johnson,	Jamaica
4.	James Spittal Buchanan,	Australia
5.	Jas. Andrew Neptune Scott,	,,
6.	Arth. Jaffray Hutchison, M.A.,	Scot.
7.	Hugh Corbett Taylor Young,	,,
8.	David Macdonald,	,,
9.	Robert Alex. Morton, B.Sc.,	Scot.
10.	Albert Alexander Gray,	Scotland
11.	Robert Kennedy, M.A., B.Sc.	,,
12.	Robert Bell,	,,
13.	James Hill,	,,
14.	James Paul Low,	,,
15.	William Clark, M.A., B.Sc.,	,,
16.	George Agnew Main,	,,

III. ORDINARY DEGREES.

John Adam,	Scotland
John Wilson Adam,	,,
Charles Angus Alexander,	,,
James Alexander,	,,
Charles Bannatyne,	,,
James Barr,	,,
James Boag,	,,
Henry M'Donald Borland,	,,
James Wood Boyd,	,,
William Maccall Boyd,	,,
Arthur Herbert Browne,	England
Robert Brownridge,	Scotland
Mungo Bryson,	,,
Robert Burns,	,,
William Butler,	England
Matthew Cameron,	Scotland
James Dick Campbell,	,,
James Hamilton Campbell,	,,
James Chalmers,	,,
Charles Edward Cochrane,	India
Alexander Cook,	Scotland
Peter Drummond, M.A.,	,,
John Panton Dunn,	,,
Thomas Forrest,	,,
D. Hutton Fotheringham, M.A.,	,,
John Galloway,	,,
William Gemmell,	,,
William Fisher Grier,	Wales
Charles Herbert Hall,	England
James Jarvie Hood,	Scotland
Walter King Hunter, B.Sc.,	,,
George Scott Jackson,	England
Daniel Kerr,	Scotland
John Martin Munro Kerr,	,,
Charles Frederick Laing,	,,
John Lithgow,	,,
James Rowatt Logan,	,,
James Nelson Matthews,	Ireland
Arthur William Miller,	Scotland
Alexander Campbell Morrison,	,,
Andrew Morton,	,,
Alex. Goodsir Mowat, M.A.,	,,
James Muir,	,,
Donald Murray,	,,
Stuart Macbirnie,	,,
A. Macnicol Gillies Macdonald,	,,
William Dove Macfarlane,	,,
Duncan Otto M'Gregor,	,,
Hugh Macintyre,	,,
Jas. Paterson MacLaren, M.A.,	,,
John Norman MacLeod, M.A.,	,,
James Gibson M'Naught, M.A.,	,,
James Andrews Macpherson,	,,
Peter M'Ritchie,	,,
William Alexander Neish,	,,
Robert Nichol,	,,
John Wyllie Nicol,	,,
William Park (Kilmarnock),	,,
William Harrop Parry,	Wales
Edward Ley Paton, M.A.,	Scotland
John Pollock,	,,
William John Robertson, M.A.,	,,
Ralph Henry Rothery,	England
Hugh Scott Russell,	Scotland

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[1] Mr. Lamb gained the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

Archibald Shaw,	Scotland	Sholto Douglas Thomson,	Scotland
Alexander Shiels,	,,	Geo. Marius Edwin Thorp,	Demerara
William M'Gill Smith,	,,	Adam Crawford White,	Scotland
Alexander Smyth,	,,	Walter Ebner Williams,	England
Robert Stevenson,	,,	Alexander David Wilson,	Scotland
Roderick Tate Sutherland,	Australia	James John Taylor Young,	,,
James Swanson, M.A.,	Scotland		

October, 1890.

Hugh Lang,	Scotland.
William John More Slowan,	,,
James Alexander Wilson,	,,

November, 1890.

Alexander Andrew,	Scotland	Arthur Henry Lucas,	Scotland
Thomas Berry,	,,	Thomas Dryden Moffat,	,,
James Cordiner, M.A.,	,,	Douglas Wills Russell,	,,
Malcolm Gillies,	,,	James Sim Wallace, B.Sc.,	,,
James Kirkwood,	,,	John Zuill, M.A.,	,,
George Lowson,	,,		

December, 1890.

Thomas Primrose Anderson,	Scotland.
Alexander Percy Agnew,	England.

January, 1891.

I. COMMENDATION.

George Henry Edington, Scotland.

II. ORDINARY DEGREES.

Robert James Nevin, Ireland.

DIPLOMA IN PUBLIC HEALTH.

November, 1890.

Thomas Kerr Bell, M.B., C.M.
John Galloway, M.B., C.M.
John Thomas Brown Laverick, M.B., C.M.
Douglas Wills Russell, M.B., C.M.

MASTERS OF ARTS (M.A.).

May, 1890.

Alexander Stewart.

November, 1890.

I. WITH HONOURS.

With First Class Honours in Classics.

George Douglas Brown.

With First Class Honours in Mental Philosophy.

Robert Bulloch Douglas.

With First Class Honours in Mathematics and Natural Philosophy.

Peter Pinkerton.

With Second Class Honours in Mental Philosophy.

Douglas Blyth Binning.
Robert Baillie Douglas. | James Hair Maclean.

With Second Class Honours in Mathematics and Natural Philosophy.

Gilbert Buchanan. | Alexander Holm.

II. ORDINARY DEGREE.

Robert Lohoar Boyd.
John Alexander Campbell.
Hugh Carmichael.
Dugald M'Coig Cowan.
William Davidson Creighton.
Joshua Ferguson.
George Kilgour Green.
George Alexander Francis Knight.
Andrew Lang.
Julius M'Callum.
Malcolm M'Coll.
Donald Macdonald (Tiree).
James Paterson.
Thomas Dunn Robb.
John Ronald.
Charles Maxwell Scrimgeour.
David Wright Smith.
George Mackie Smith.
Robert Bruce Taylor.

December, 1890.

Charles Allan.

April, 1891.

I. WITH HONOURS.

With First Class Honours in Classics.

John Hamilton Pagan.

With Second Class Honours in Classics.

John Gillies.
John M'Gilchrist.

II. ORDINARY DEGREE.

James Richmond Aitken.
John M'Connach Allardyce.
David Baillie.
David Baird.
John Bartholomew.
Claude Hooper Bater.
Robert Scott Brown.
James Black Campbell.
Walter Allison Campbell.
Alexander Carruthers.
Robert Carswell.
John Macintosh Cocker.
David Connor.
Thomas Cook.
Hugh Cowan.
John Cowan.
Peter Latimer Leitch Craig.
Alexander Donaldson.
Thomas Willocks Fawns.
James Crawford Findlay.
Robert M'Kechnie Fraser.
John Gemmell.
Francis Laurie Grant.
Ernest Sherwood Gunson.
John Hunter.
Thomas Inglis.
George Irving.
Robert Lamond.
Joseph Brown Logie.
Robert Henderson Loudon.
Harry Lumsden.
David Scribner Merrow.
William Metcalfe.
William Mitchell.
Harry Stevenson Munro.
Bryce MacFarlane.
Alexander M'Innes.
Archibald Macintyre.
Stevenson M'Nab.
William Brown M'Nab.
John Henry Horton M'Neill.
Archibald Leitch Macquistan.
Adam Nelson.
Andrew Bonar Nielson.
Frank Hume Lyall Paton.
William Edward Perfect.
James William Reid.
Robert Knox Risk.
John Ritchie.
William Samuel.
James Short.
David Thomson Smith.
William Stevens Smith.
John Sandys Stanyon.
Peter Donald Thomson.
David Mackie Threshie.
John Vaughan.
Ernest Alexander Walker.
Henry Allan Watson.

DOCTORS OF SCIENCE (D.Sc.).

May, 1890.
John Hamilton Fullarton, M.A., B.Sc.

April, 1891.
Arthur Watson Thomson, B.Sc.

BACHELORS OF SCIENCE (B.Sc.).

April, 1891.

I. WITH HONOURS.

With Honours in Civil Engineering—
In Engineering Science.
James Fenwick.

II. ORDINARY DEGREE.

In Biological Science.
Matthew Lochhead.
William James M'Kendrick.
Alexander Shiels, M.B., C.M.

In Physical Science.
William Robert Lang.
Duncan MacLellan.

In Engineering Science.
William Cecil Easton.
James Denny Inglis.

DEPARTMENTAL CERTIFICATES.

I.—FOR DEGREE OF B.D.

FIRST DEPARTMENT—*November*, 1890.

Brodie, Duncan Hunter, M.A.
Campbell, John, M.A.
Campbell, William, M.A.
Campbell, William M'Kean, M.A.
Colville, John, M.A.
Davies, Norman de Garis, M.A.
Lang, Marshall Buchanan, M.A.
Littlejohn, John Martin, M.A.
Sinclair, John Dickson, M.A.

SECOND DEPARTMENT—*April*, 1891.

Alexander, David Ritchie, M.A.
Brodie, Duncan Hunter, M.A.
Burns, James Steven, M.A.
Campbell, John, M.A.
Campbell, William, M.A.
Colville, John, M.A.
Davies, Norman de Garis, M.A.
Dickson, Matthew Scott, M.A.
Gilchrist, Edward James, M.A.
Gillison, Henry Tod, M.A.
Grant, James Home, M.A.
Macdonald, Angus, M.A.
MacLennan, George Robert, M.A.
Sinclair, John Dickson, M.A.
Torrance, John, M.A.

II.—FOR DEGREE OF M.A.

1. IN CLASSICAL LITERATURE.

November, 1890.

Allan, James
Anderson, John
Baird, James Paterson
Brown, Alfred
Brown, George Douglas (I. Hon.)
Bryan, Thomas Albert

*Buchanan, Robert Matthew
Campbell, Walter Allison
Cherry, William
*Cowan, Dugald M'Coig
*Donaldson, Alexander
*Dougall, Charles S.
Fawns, Thomas Willocks
Fergusson, Robert
Gibson, Robert M'Lean
Gillespie, James Hogg
Grant, Alexander B.
Gray, John
*Hamilton, Hugh Archibald
Howat, Adam
Howell, Alex. Rutherford
Irving, George
Jerdan, David Smiles
Kerr, William Robert
*King, Walter
Lamont, Charles
Lockhart, Robert Fisher
Martin, William
MacGillivray, Donald
M'Kenzie, Roderick
Maclauchlan, Francis Joseph
M'Lean, Robert
Macleroy, Campbell M'Queen
Macmaster, William
M'Neill, John Henry Horton
Macnicol, Nicholas (II. Hon.)
Pagan, Gavin Lang
Pagan, John H. (I. Hon.)
Paterson, John Douglas
Patrick, John Arthur
Peebles, Guy S.
Reith, Archibald
Robb, Thomas Dunn
Robertson, Archibald Æneas
Ross, Charles D. M.
Short, James
Sneddon, George Thomas
Spens, John Gillespie
Steven, William M'Culloch
Wilson, Robert

April, 1891.

Adam, Thomas
*Brown, John
Cæsar, James
Cairnie, Charles
Campbell, Alex. Scott
Campbell, Arch. Fletcher
Campbell, James Black
*Chalmers, John Cuthill
Coats, Robert Hay
Cowan, Samuel Donaldson
Cuthill, James Spence
*Dickie, John M'Ausland
Dow, Donald Nicol
Dowie, John Dunbar
Duncan, Alex. Adams
Dunlop, James
Eadie, James
Fergusson, David
Fleming, Alfred James
Gibson, Lawrence Miller
Grant, Francis Laurie
Gray, James Hunter, B.Sc.
Henderson, William Craig
Hobart, Robert Reid
Inglis, Thomas
Jenkins, Hugh
Kelly, William
Kidd, Thomas
Loudon, Robert Henderson
Mitchell, William
Morrison, Hugh T. S.
Munro, Harry Stevenson
M'Callum, John (Kintyre)
MacCallum, John
Macdonald, Dugald
Macdonald, Ronald
Macfie, Samuel
M'Intyre, Joseph M. B.
Mackenzie, Alexander
Macnicol, Roderick R.
M'Pherson, George
MacRae, Duncan M.
Osborne, Charles Stuart
Paterson, Thomas
Paterson, William Romaine
Ralston, Robert Gow
Ramsay, William Livingstone
Reid, James William
Robertson, John Charles
Rule, Robert
Shannon, William Henry
Smith, Andrew Doak
Templeton, William S.
*Walker, Robert Bryce
Young, David (Stranraer)
Yuille, George Simpson

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* Students whose names are marked with an asterisk distinguished themselves in the examination.

2. IN MENTAL PHILOSOPHY.

November, 1890.

Baillie, David
Binning, Douglas B. (II. Hon.)
Boyd, Robert L.
Cameron, John
Creighton, William D.
Dewar, Alexander
Douglas, Robert Baillie (II. Hon.)
Douglas, Robert Bulloch (I. Hon.)
Dron, John A.
Ferguson, Joshua
Flint, Alexander
Harvey, Thomas
Low, Andrew Robb
M'Coll, Malcolm
M'Farlane, William
Maclean, James Hair (II. Hon.)
M'Luskie, Hugh
Park, James A.
Smith, David W.
Smith, George M.
Whyte, Quintin D.

April, 1891.

Anderson, John
Anderson, William C.
Baird, David
Bartholomew, John
Bater, Claude H.
Boyd, Francis
Boyd, John S.
Bryan, Thomas A.
Calderwood, John
Cameron, James
Campbell, Alexander S.
Campbell, Walter A.
Carstairs John L.
Carswell, Robert
Cherry, William
Clark, James A.
Clazy, William O.
Clow, William
Cocker, John M.
Connor, David
Cook, John M.
Cowan, Hugh
Cowan, John
Craig, Peter L. L.
Dale, Alexander
Davidson, James
Dick, John O.
Donaldson, Alexander
Dougall, Charles S.
Eaglesham, James
Edgar, Campbell C.
Fawns, Thomas W.
Findlay, James C.
Gillies, John
Gunson, Ernest S.
Hamilton, Alex. M.
Hastie, John S.
Irving, George
Lamond, Robert
Liddell, John
Logie, Joseph B.
Mair, Matthew
Manford, John M.
Merrow, David S.
Moodie, James
M'Callum, Julius F.
MacFarlane, Bryce
Macfie, John M.
Macintyre, Archibald
Macmaster, William
Macnab, Peter
M'Naught, John C.
M'Neill, John H. H.
Macquistan, Archibald L.
Nelson, Adam
Nielson, Andrew B.
Pagan, John H.
Paton, Frank H. L.
Primrose, Edward J.
Pritchard, John
Purdie, Robert P.
Risk, Robert K.
Ritchie, John
Robertson, John S.
Russell, James
Samuel, William
Sanders, John
Scotland, Robert M.
Short, James
Skinner, William G.
Smith, David T.
Stewart, George S.
Stobo, John
Taylor, William
Thomson, Andrew G.
Thomson, Peter D.
Threshie, David R.
Vaughan, John
Walker, Ernest A.
Wallace, James
Watson, Henry A.
Young, David (Stranraer)
Young, David (Strathaven)

3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

November, 1890.

Buchanan, Gilbert (II. Hon.)
Carmichael, Hugh
Cowan, John
Craig, James Hunter
Cunningham, Alexander
Gillon, Alexander
Green, George Kilgour
Gunson, Ernest S.
Holm, Alexander (II. Hon.)
Knight, George A. F.
Lang, Andrew
Livingston, John
Martin, Thomas
M'Callum, Julius
Macdonald, Donald
Mackenzie, James Noble
Perfect, William Edward
Pinkerton, Peter (I. Hon.)
Rule, Robert H.
Scrimgeour, Charles M.
Smith, William Stevens
Stewart, John

April, 1891.

Aitken, James R.
Aitken, John Russell
Anderson, William C.
Baillie, David
Boyd, Francis
Brown, Robert Scott
Carruthers, Alexander
Carswell, Robert
Clazy, Robert Smith
Clow, William
Cocker, John M.
Conochie, Thomas G.
Cook, Thomas
Cowan, Samuel D.
Craig, Peter L. L.
Crombie, Henry
Dale, Alexander
Donaldson, Alexander
Edgar, Campbell C.
Fawns, Thomas W.
Findlay, James C.
Flint, Alexander
Forsyth, Walter G.
Gemmell, Andrew
Gemmell, John
Gillies, John
Hastie, John S.
Hunter, John
Irving, George
Johnston, Frederick Wm.
Lamond, Robert
Lamont, Daniel
Lang, Joseph
Logie, Joseph B.
Manford, John M'E.
Merrow, David S.
Morrison, John
M'Dougall, Alexander
MacFarlane, Bryce
Macintyre, Archibald
M'Millan, Dugald
Macnab, Peter
M'Nab, Stevenson
M'Nab, William B.
M'Neill, John H. H.
Macquistan, Archibald L.
Pagan, John H.
Paterson, Thomas
Paton, Frank H. L.
Primrose, Edward J.
Richmond, William
Ritchie, John
Samuel, William
Skinner, William G.
Thomson, Andrew G.
Thomson, Peter D.
Vaughan, John
Walker, Ernest A.
Wallace, George P.
Watson, Henry A.

III.—FOR DEGREES IN LAW.

I.—For Degree of LL.B.

1. IN CIVIL LAW.

October, 1890.

Barclay, Robert Francis, M.A.
Braidwood, Gavin, M.A.
Fraser, Charles F. P., M.A.
Kirkhope, John, M.A.
Scobie, Alfred, M.A.

April, 1891.

Kerr, William Caird, M.A.
Lillie, Thomas Holtum, M.A.

2. IN LAW OF SCOTLAND.

October, 1890.

Boswell, John Douglas, B.A.
Kirkhope, John, M.A.

April, 1891.

Alston, Andrew, M.A.
Blacklock, Duncan C. S., M.A.
Littlejohn, John Martin, M.A., B.D.
Maclachlan, Hugh D. C., M.A.,

3. IN CONVEYANCING.

October, 1890.

Boswell, John Douglas, B.A.

April, 1891.

Kerr, William Caird, M.A.

4. IN PUBLIC LAW.

April, 1891.

Blacklock, Duncan C. S., M.A.
Boyd, Herbert Cameron, M.A.
Littlejohn, John Martin, M.A., B.D.

5. IN CONSTITUTIONAL LAW AND HISTORY.

October, 1890.

Barclay, Robert Francis, M.A.
Braidwood, Gavin, M.A.
Fraser, Charles F. P., M.A.

April, 1891.

Alston, Andrew, M.A.
Boyd, Herbert Cameron, M.A.
Lillie, Thomas Holtum, M.A.
Maclachlan, Hugh D. C., M.A.

6. IN MEDICAL JURISPRUDENCE.

October, 1890.

Boswell, John Douglas, B.A.
Scobie, Alfred, M.A.

April, 1891.

Blacklock, Duncan C. S., M.A.

II. For Degree of B.L.

1. IN LATIN.

November, 1890.

Edington, Patrick F. W.
Gunn, John
Healy, Christopher John

April, 1891.

Brand, James Gordon
Dunlop, Edward
Grant, John
Pollok, James Cullen
Stiell, John Semple
White, Robert Summers

2. IN GREEK.

---

3. IN LOGIC.

November, 1890.

Hay, Robert B.
M'Clure, Robert Wilson

April, 1891.

Dunlop, Edward
Gunn, John
Harrison, John
Kerr, James Dickson
M'Fadyen, Archibald

4. IN MORAL PHILOSOPHY.

November, 1890.

Mitchell, John Peter

April, 1891.

Gunn, John
Healy, Christopher John
Nelson, Walter
Pollok, James Cullen

5. IN ENGLISH LITERATURE.

November, 1890.

Andrew, Matthew M'Gavin
Laird, James Mungo
Orr, James Thomas

April, 1891.

Dennison, Jerome
Harrison, John
Harvey, Francis William
Sellar, Charles
Stirling, James Fergus
Young, John Ross

6. IN MATHEMATICS.

November, 1890.

Chapman, George Charles
Mitchell, John Peter

April, 1891.

Young, Alex. Francis

7. IN NATURAL PHILOSOPHY.

November, 1890.

Dunlop, George

8. IN FRENCH.

October, 1890.

Orr, James Thomas

April, 1891.

Wyllie, John

9. IN GERMAN.

April, 1891.

Gunn, John

10. IN CIVIL LAW.

October, 1890.

Hurll, John
Macquisten, Frederick Alex.

11. IN LAW OF SCOTLAND.

October, 1890.

Bryden, Robert Lockhart
Murray, Andrew Gilmour
Rankin, John

April, 1891.

Cameron, Archibald
Gray, Alex. Mitchell
Morton, James
Macquisten, Frederick Alex.

12. IN CONVEYANCING.

October, 1890.

Bryden, Robert Lockhart
Coats, James, M.A.

April, 1891.

Cameron, Archibald
Gray, Alex. Mitchell
Murray, Andrew Gilmour
Macquisten, Frederick Alex.
Thompson, James Cargill
Wyper, John Newton

13. IN PUBLIC LAW.

14. IN CONSTITUTIONAL LAW AND HISTORY.

October, 1890.

Hurll, John
Murray, Andrew Gilmour
Macquisten, Frederick Alex.
Rankin, John

15. IN MEDICAL JURISPRUDENCE.

April, 1891.

Wyper, John Newton

16. IN POLITICAL ECONOMY.

April, 1891.

Morton, James
Murray, Andrew Gilmour
Thompson, James Cargill

IV.—FOR DEGREE OF B.Sc.

Old Regulations.

1. IN LATIN.

2. IN GREEK.

3. IN LOGIC.

April, 1891.

Lang, James

4. IN MORAL PHILOSOPHY.

5. IN ENGLISH LITERATURE.

6. IN MATHEMATICS.

April, 1891.

Whyte, James

7. IN NATURAL PHILOSOPHY.

8. IN ANATOMY.

April, 1891.

Lochhead, Matthew

9. IN BOTANY.

10. IN ZOOLOGY.

October, 1890.

Lochhead, Matthew
M'Ewan, James Wardrop, M.A.
Wallace, William

11. IN GEOLOGY.

October, 1890.

Collins, Hugh Brown
Manners, Hugh, M.A.

12. IN CHEMISTRY.

April, 1891.

Lochhead, Matthew

13. IN PHYSIOLOGY.

14. IN CIVIL ENGINEERING AND MECHANICS.

15. IN PRACTICAL ENGINEERING.

---

16. IN GEODESY.

April, 1891.

Holm, Alexander, M.A.

Regulations of 1885.

A. In Biological Science.

FIRST EXAMINATION—NATURAL PHILOSOPHY, CHEMISTRY.

November, 1890.

MacLennan, Alexander
Wallace, Herbert Kidson

SECOND EXAMINATION—BOTANY, ZOOLOGY.

October, 1890.

Shiels, Alexander, M.B., C.M.

THIRD EXAMINATION—ANATOMY, PHYSIOLOGY.

April, 1891.

M'Kendrick, William James
Shiels, Alexander, M.B., C.M.

FINAL EXAMINATION.

April, 1891.

M'Kendrick, William James (Physiology)
Shiels, Alexander, M.B., C.M. (Zoology)

B. In Physical Science.

FIRST EXAMINATION—MATHEMATICS, NATURAL PHILOSOPHY, CHEMISTRY.

November, 1890.

Buchanan, William
Main, Robert
Wilson, William Rowan

FINAL EXAMINATION—CHEMISTRY.

November, 1890.

Lang, William Robert

C. In Engineering Science.

1. MATHEMATICS.

November, 1890.

Venters, William Beattie

April, 1891.

Bruhn, Johannes
Coulson, George Francis
Ferrier, Robert Muir.

2. NATURAL PHILOSOPHY.

November, 1890.

Easton, William Cecil
Fenwick, James
Henderson, James Blacklock
Parry, Evan

April, 1891.

Ferrier, Robert Muir
Shields, William Herbert

3. CHEMISTRY.

November, 1890.

Ferrier, Robert Muir
Hunter, Riotaro Hirano
Kennedy, Robert

April, 1891.

Shields, William Herbert
Venters, William Beattie

4. GEOLOGY.

November, 1890.

Cormack, John Dewar
Ferrier, Robert Muir

5. GEODESY.

April, 1891.

Brownlee, Hugh Rodger
Coulson, George Francis
Easton, William Cecil
Fenwick, James
Ferrier, Robert Muir
Parry, Evan
Venters, William Beattie

6. CIVIL ENGINEERING AND MECHANICS.

November, 1890.

Easton, William Cecil

April, 1891.

Cormack, John Dewar (Hon.)
Fenwick, James (Hon.)
Ferrier, Robert Muir
Henderson, James Blacklock (Hon.)
Inglis, James Denny
Sharpe, William
Workman, Harold

7. PRACTICAL ENGINEERING.

April, 1890.

Ferrier, Robert Muir

April, 1891.

Hunter, Riotaro Hirano
Muirhead, William
Russell, Thomas William
Taylor, David Guilland

8. NAVAL ARCHITECTURE.

April, 1891.

Easton, William Cecil
Fenwick, James
Ferrier, Robert Muir
Forbes, Charles
Wood, Robert Crawford

Regulations of 1890.

A. In Natural Science.

FIRST EXAMINATION—FIRST PORTION—MATHEMATICS, NATURAL PHILOSOPHY.

April, 1891.

Clark, John
M'Lellan, Archibald Neville
Macleod, William
Paton, Leslie Johnston
Young, Archibald

FIRST EXAMINATION—SECOND PORTION—CHEMISTRY, BOTANY, ZOOLOGY.

October, 1890.

Fullarton, James

B. In Engineering Science.

NATURAL PHILOSOPHY.

April, 1891.

Hibbs, Frank Warren
Rock, George Henry
Ruhm, Thomas Francis

CHEMISTRY.

April, 1891.

Greer, James Courtney

GEODESY.

April, 1891.

Stewart, Walter

PRELIMINARY EXAMINATION IN ARTS FOR DEGREE OF M.A.

The following passed in Latin:—

Anderson, Thomas
Bell, William Gregory
Brailsford, Henry Noel
Carruthers, Thomas
Crawford, David Hodge
Cumming, John
Cumming, William
Fairgrieve, Mungo M.
Glen, David
Gourlay, Wm. Robert
Graham, John Alexander
Hair, James
Hall, John
Henderson, Ephraim
Jones, Thomas Wedros
Leishman, John Stuart
Matheson, Roderick M.
Morton, Wm. Alexander
Murdoch, Andrew D.
M'Callum, Archibald
M'Ewing, Samuel H.
MacKenzie, James
MacLeod, John
Macmorran, Robt. Smith
Nelson, Allan Manson
Nicol, Charles Edward
Pollock, James
Ramsay, William L.
Robertson, Andrew
Scott, John Charles
Smith, Thomas
Stewart, John
Tannahill, John Roy
Taylor, Alexander
Thomson, James
Thomson, John Scoular
Tulloch, John L. C.
Walker, Robert Bryce
Webster, David Graham
Williamson, Henry
Wilson, John Millar

The following passed in Greek:—

Anderson, Thomas
Brailsford, Henry Noel
Craig, Alex. G.
Crawford, David Hodge
Cumming, John
Cumming, William
Dick, James
Glen, David
Gourlay, William Robt.
Gow, William
Henderson, Ephraim
Matheson, Roderick M.
Mackenzie, James
MacRobert, Alex. M.
Nicol, Charles Edward
Pollock, James
Ramsay, Willam L.
Robertson, Andrew
Smith, Thomas
Stewart, John
Tannahill, John Roy
Thomson, James
Thomson, John Scoular
Walker, Robert Bryce
Webster, David Graham
Wilson, John Millar

The following passed in Mathematics:—

Bell, William Gregory
Crawford, David Hodge
Cumming, John
Fairgrieve, Mungo M'C.
Glen, David
Gourlay, William Robt.
Henderson, Ephraim
Low, William Henry
Matheson, Roderick M.
Murdoch, Andrew D.
M'Call, Tom
M'Callum, Archibald
MacKillop, Gardiner H.
MacLeod, John
Nelson, Allan Manson
Nicol, Charles Edward
Pollock, James
Ramsay, William L.
Robertson, Andrew
Stewart, John
Taylor, Alexander
Thomson, John Scoular
Walker, Robert Bryce
Watson, Harry Muir
Watson, William
Webster, David Graham
Wilson, John Millar

ENTRANCE EXAMINATION IN THE FACULTY OF ARTS.

The following satisfied the Examiners:—

Anderson, Thomas
Brailsford, Henry N.
Brown, Lawrence R.
Charteris, Archibald H.
Corbett, Joseph M.
Crum, John G.
Cumming, John
Cumming, William
Dick, James
Gardner, George
Gourlay, William R.
Graham, John A.
Hair, James
Gray, John
Leishman, John S.
Low, William H.
Macleod, William
Mathieson, Thomas O.
Miller, Guy B.
Morrison, William
Murchison, Alexander M.
Murray, Robert A. E.
M'Clure, James
Mackillop, Gardiner H.
Maclachlan, John A.
Paterson, Frederick G.
Pearson, Norman C.
Robertson, John D.
Robertson, L. V. G.
Smith, Thomas
Stewart, John
Tannahill, John R.
Thomson, James
Williamson, Henry A.
Yule, David M.
Yule, William

BURSARY EXAMINATION.

November, 1890.

The figure (2) denotes students of the second year.

The following Candidates distinguished themselves in the Competition, viz.:—

1. Ephraim Henderson, Ayr Academy
2. Joseph F. M'Fadyen (2), Hutchesons' Grammar School, Glasgow
3. William L. Ramsay, Ayr Academy
4. John Ruggan (2), Hutchesons' Grammar School, Glasgow
5. David H. Crawford, Ayr Academy
6. Robert B. Walker, High School of Glasgow
7. James Dick, Garnethill Public School, Glasgow
8. Henry N. Brailsford, High School, Dundee
9. Alfred J. Fleming (2), High School of Glasgow
10. John J. H. Johnston (2), Lenzie Academy
11. David G. Webster, Larchfield Academy, Helensburgh
12. John S. Thomson, Rothesay Academy
13. John Cumming, Hutchesons' Grammar School, Glasgow
14. William Cumming, Paisley Grammar School
15. Andrew Robertson, Kilmarnock Academy
16. William Gow, High School, Dundee
17. James C. M'Clure (2), Kelvinside Academy, Glasgow
18. Robert Rule (2), Kelvinside Academy, Glasgow
19. Roderick M. Matheson, Kilblain Academy, Greenock
20. John Sinclair (2), Uddingston Public School
21. John Stewart, Rothesay Academy
22. James Rodger (2), F.C. Normal School, Glasgow
23. Andrew Patrick (2), Ayr Academy
24. Charles E. Nicol, Neilson Institution, Paisley
25. John M. Wilson, Glasgow Academy
26. Peter D. Strachan (2), Barvas and Shader Public Schools, Stornoway
27. James S. Cuthill (2), Falkirk High School
28. James Pollock, Hutchesons' Grammar School, Glasgow
29. Malcolm Dunlop (2), Kilblain Academy, Greenock
30. Henry Williamson, Hamilton Academy
31. Allan M. Nelson, Hutchesons' Grammar School, Glasgow
32. James Ferguson (2), High School of Glasgow
33. Alexander M. MacRobert, Paisley Grammar School
34. Alexander G. Craig, Dumbarton Burgh Academy
35. William Watson, High School of Glasgow
36. James Mackenzie, Forres Academy
37. David Glen, Dumbarton Burgh Academy
38. Thomas Anderson, High School of Glasgow
39. William R. Gourlay, Kelvinside Academy, Glasgow
40. Archibald M'Callum, Hutchesons' Grammar School, Glasgow
41. Andrew D. Murdoch, Neilson Institution, Paisley
42. William A. Morton, Dumbarton Burgh Academy
43. John C. Scott, Grammar School, Carlisle
44. William C. Henderson (2), High School of Glasgow
45. Samuel H. M'Ewing, Hutchesons' Grammar School, Glasgow
46. James Thomson, Glasgow Academy
47. John Shaw (2), Hamilton Academy
48. Alexander Taylor, Hutchesons' Grammar School, Glasgow
49. John R. Tannahill, Neilson Institution and Grammar School, Paisley

50. John A. Duke (2), Albany Academy, Glasgow
51. Robert S. Macmorran, High School of Glasgow
52. William H. Low, Kelvinside Academy, Glasgow
53. Robert R. Hobart (2), Lanark Grammar School
54. Mungo M. Fairgrieve, High School of Glasgow
55. Gardiner H. Mackillop, High School of Glasgow
56. Robert G. Ralston (2), Glasgow Academy and Private

UNIVERSITY PRIZES.

I.—For Essays:—

1. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best Essay on "Plotinus, and his Influence upon the Philosophy of his Age."

John Ronald, M.A.

2. The WATT PRIZE of Ten Pounds, for an Experimental Determination of Thermal Conductivities of Metals.

James Hunter Gray, B.Sc.

3. A COULTER PRIZE of Five Pounds, for the best Essay on "Jewish and Christian Eschatology."

William Thomson, M.A.

4. A COULTER PRIZE of Five Pounds, for the best English Essay on "Empedocles: his position in Greek Literature and Philosophy."

James Fairlie Gemmill, M.A.

5. The RAE WILSON GOLD MEDAL, for the best Essay on "Philo and the Fourth Gospel."

William Metcalfe, M.A.

6. The HENDERSON PRIZE of Twenty Guineas, for the best Critical and Exegetical Examination of "Passages in Paul's Epistles bearing on the Sabbath."

William Thomson, M.A.

7. The DOBBIE-SMITH GOLD MEDAL, for the best Essay on a Botanical subject, accompanied by Macroscopic and Microscopic Specimens.

Benjamin George Cormack, M.A., B.Sc.

II.—For Examination:—

1. An ARNOTT PRIZE of Fifteen Pounds, for Examination in General Physics, open to Students of the First and Second Years of the Medical Studies.

Leslie J. Paton.

2. An ARNOTT PRIZE of Twenty-five Pounds, for Examination in Physiological Physics, open to Students of the Third and Fourth Years of their Medical Studies.

Malcolm Macnicol, M.A.

3. The LUKE HISTORICAL PRIZE of Twelve Pounds, for the best Examination in Ancient Greek and Roman History.

George Douglas Brown, M.A.

4. The FINDLATER (DIVINITY) SCHOLARSHIP, value Thirty-eight Pounds, for an Examination in Divinity, Church History, and Biblical Criticism.

Angus Macdonald, M.A.

5. The JAMIESON PRIZE, value Ten Pounds, for an Examination in Divinity, Church History, and Biblical Criticism.

John Campbell, M.A., B.D.

6. The MACFARLAN and COOK TESTIMONIAL PRIZE of Twenty Guineas, open to Theological Students of Three Years' standing—Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

John Campbell, M.A., B.D.

7. The THOMAS LOGAN MEDAL and PRIZE, to the most distinguished Graduate in Arts of the year (1890).

John E. M'Fadyen, M.A., with First-Class Honours in Classics.

8. The BRUNTON MEMORIAL PRIZE, value Ten Pounds, given to the most distinguished Graduate in Medicine of the year (1890).

George Lamb, M.B., C.M.

CLASS PRIZES.

Faculty of Theology.

DIVINITY.

PROFESSOR WILLIAM P. DICKSON, D.D., LL.D.

SENIOR CLASS.

I.—Students of the Third Year:—

For Excellence in Written Examinations.

1. James M. Crawford, Bridge of Weir } Equal
   Matthew S. Dickson, M.A., Holytown }
2. Duncan H. Brodie, B.D., Whitburn
3. Angus Macdonald, M.A., Kilfinichen, Iona
4. William Main, Glasgow

II.—Students of the Second Year:—

For Excellence in Written Examinations.

1. John White, Partick
2. William Thomson, M.A., Kilmarnock
3. William Howie, M.A., Galston, Ayrshire
4. John Boyle, M.A., Farnell, Brechin
5. Robert Barr, Bearsden
6. John Easton Black, M.A., Greenock } Equal
   Archibald B. Scott, M.A., Glasgow }

Dowanhill Prizes of £21 and £10 10s. for Elocution.

1. William Main, Glasgow
2. George R. MacLennan, M.A., Inverness

JUNIOR CLASS.

For Excellence in Written Examinations.

1. Gavin Warnock, M.A., Wishaw
2. James P. Wilson, M.A., St. Quivox, Ayr
3. William S. Brownlee, M.A., Rutherglen } Equal
   Hugh Climie, Old Cumnock }
4. Thomas Cook, Paisley
5. Hugh Young Arnott, M.A., Kinloch, Blairgowrie

DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

I.—Written Examinations:—

SENIOR DIVISION.

1. John Campbell, B.D., Glasgow
2. William Main, Glasgow
3. Angus Macdonald, M.A., Kilfinichen, Iona

Proxime accesserunt—Duncan H. Brodie, B.D., Whitburn; George R. MacLennan, M.A., Inverness; William Campbell, B.D., Auchterarder.

JUNIOR DIVISION.

1. William Howie, M.A., Galston, Ayrshire
2. John White, Partick
3. William Metcalfe, M.A., Paisley
4. James W. Macdonald, M.A., Logierait, Perthshire

Proxime accesserunt—John E. Black, M.A., Greenock: John Boyle, M.A., Farnell, Brechin; Archibald B. Scott, M.A., Glasgow; David H. Gillan, M.A., Carmunnock.

II.—Essays:—

1. John White, Partick
2. James W. Macdonald, M.A., Logierait, Perthshire
3. John E. Black, M.A., Greenock

Proxime accesserunt—William Metcalfe, M.A., Paisley; Robert Barr, Bearsden; Ewen M. Macgregor, M.A., Dundee; Robert L. Boyd, M.A., Dalserf.

ORIENTAL LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

I.—SENIOR HEBREW CLASS.

1. William Howie, M.A., Galston, Ayrshire
2. Ewen M. Macgregor, M.A., Dundee
3. James W. Macdonald, M.A., Logierait, Perthshire
4. Robert Barr, Bearsden
5. John Boyle, M.A., Farnell, Brechin
6. John Livingston, Baldernock
7. David H. Gillan, M.A., Carmunnock

Summer Readings—John Livingston, William Howie, M.A., Robert Barr, James W. Macdonald, M.A.

II.—JUNIOR HEBREW CLASS.

1. James P. Wilson, M.A., St. Quivox, Ayr
2. Hugh Young Arnott, M.A., Kinloch, Blairgowrie
3. Archibald M'Lean, Paisley

Next in Order of Merit—Alexander Carruthers, M.A., Kilwinning; Robert J. Paul, M.A., Cardross, Dumbartonshire; Thomas Cook, M.A., Paisley; Adam R. Rose, Kilmarnock; William Smith, Auchinleck, Ayrshire.

CHURCH HISTORY.

Professor Robert Herbert Story, D.D.

SENIOR CLASS.

1. Angus Macdonald, M.A., Kilfinichen, Iona
2. James M. Crawford, Bridge of Weir
3. Duncan H. Brodie, B.D., Whitburn
4. John Campbell, B.D., Glasgow

Proxime accesserunt—William Campbell, B.D., Auchterarder; William Main, Glasgow; Matthew S. Dickson, M.A., Holytown; Hugh S. Given, Dunoon; John Colville, B.D., Glasgow.

JUNIOR CLASS.

1. Robert J. Paul, M.A., Cardross, Dumbartonshire
2. William B. M'Nab, M.A., Saltcoats
3. Hugh Young Arnott, M.A., Kinloch, Blairgowrie; Hugh Climie, Old Cumnock } Equal
4. William S. Brownlee, M.A., Rutherglen

Proxime accesserunt—Alexander Maclellan, Glasgow; Gavin Warnock, M.A., Wishaw; Thomas Cook, M.A., Paisley; John B. Mackenzie, M.A., Alexandria, Dumbartonshire.

Faculty of Law.

SCOTS LAW.

Professor Alexander Moody Stuart, Advocate.

I. For Eminence in the Class Examinations:—

1. *Archibald Maclean Young (Robert Ross Prize)
2. *James Morton (Dean of Faculty's Prize)
3. *David B. Pattison, M.A.; *John Wyllie (Extra Prize) } Equal
4, 5. *John Dunn Allison, M.A.; *Thomas D. Cree } Equal
6. William B. Hodge, M.A.
7. John Hurll
8. Thomas H. Murray
9. John M. Littlejohn, M.A., B.D.
10, 11. John Grant; Alexander Sime } Equal
12. John Peat
13. William Lockhart Dick
14. James Boyd Stevenson
15. David L. Forgan
16. Robert Bruce Taylor, M.A.
17. Robert F. Barclay, M.A.

The * denotes the Prizemen.

II.—The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination on the Subjects of the Course were awarded to:—

1. John Hurll
2. David B. Pattison, M.A.
3. { John M. Littlejohn, M.A. / Archibald M. Young } Equal
5. { Thomas D. Cree / John Peat } Equal

The following Students distinguished themselves in this Examination, viz.:—

7. James Morton
8. John Dunn Allison, M.A.
9. Alexander Sime

CONVEYANCING.

Professor James Moir.

Ordinary Class Examinations.

Prizemen:—

1. Andrew G. Murray (Robert Ross Prize)
2. Gavin L. Woodrow (Dean of Faculty's Prize)
3. Thomas J. Y. Brown
4. George Wylie
5, 6. { James C. Thompson / Robert Smith

Eminently Distinguished:—

7. Thomas Allison
8. William Hill
9. James Strang
10. John Rankin
11. Peter H. Waddell
12. William R. Morison
13. James Watt
14. Duncan C. S. Blacklock, M.A.
15. John Curdie
16, 17. { John Wilson (Primus) / John Wylie

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen:—

1. Andrew G. Murray
2. Gavin L. Woodrow
3. James C. Thompson

Eminently Distinguished:—

4. Thomas Allison
5. Thomas J. Y. Brown
6. John Rankin
7. George Wylie
8. William Hill
9. John Wilson (Primus)
10. James Strang

CONSTITUTIONAL LAW AND HISTORY.

Summer Session, 1890.

LECTURER—ROBERT T. YOUNGER, LL.B., Advocate.

1. *Andrew G. Murray
2. *Charles F. P. Fraser, M.A.
3. *John M. Littlejohn, M.A.
4. Thomas H. Lillie, M.A.
5. Herbert C. Boyd, M.A.
6. Archibald Cameron
   Robert Bruce Taylor
7. Gavin Braidwood, M.A.
8. James Morton
9. Adam Nimmo, M.A.
10. Andrew Alston, M.A.
    Robert F. Barclay, M.A.
11. John Rankin
    James Bowie King
12. John Hurll

The * denotes the Prizemen.

PUBLIC LAW.

LECTURER—WILLIAM GALBRAITH MILLER, LL.B., Advocate.

FIRST-CLASS HONOURS AND PRIZES.

1. John Martin Littlejohn, M.A., B.D., Glasgow
2. William Hutchison, M.A., B.L., Greenock
3. Herbert Cameron Boyd, M.A., Portsoy

Mr. C. F. P. Fraser, M.A., Glasgow, was prevented by an accident from attending the first examination, but attained first-class honours in the last two.

SECOND-CLASS HONOURS.

Andrew Alston, M.A., Carluke.

Faculty of Medicine.

MEDALS AND CERTIFICATES OF MERIT.

FORENSIC MEDICINE.

PROFESSOR P. A. SIMPSON, M.A. (Cantab.), M.D.

Summer, 1890.

WILLIAM HUNTER MEDAL—John Pollock.

FIRST-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

James S. Buchanan
John M'Gregor
Daniel M'Kenzie
James P. MacLaren, M.A.
Robert W. Nairn
James H. Naismith
James W. White
Hugh C. T. Young
John L. Yuill

SECOND-CLASS CERTIFICATES OF MERIT (alphabetically arranged).

James Alexander
Niel Campbell
James Chalmers
John Cross
Thomas J. Freeman
David Lamb
George Clark Stewart
James Todd
Robert Wilson
William Young

DISEASES OF WOMEN.

PROFESSOR WILLIAM LEISHMAN, M.D.

Summer Session, 1890.

FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—James G. M'Naught, M.A.

George H. Edington
James Hill } Equal
Alexander Shiels } Equal
John Calderwood } Equal
George Lamb } Equal
James A. N. Scott } Equal
James S. Buchanan

SECNOD-CLASS CERTIFICATES (alphabetically arranged).

Peter H. Abercrombie
Charles A. Alexander
John Munro Campbell
David Coutts
David H. Fotheringham, M.A.
Albert A. Gray
Robert Kennedy, M.A., B.Sc.
James Kirkwood
John Lithgow
Daniel M'Kenzie
Peter M'Ritchie
William Mason
Alex. G. Mowat, M.A.
James Swanson, M.A.
William T. M. Wallace
James Alex. Wilson

MIDWIFERY.

PROFESSOR WILLIAM LEISHMAN, M.D.

FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—James Todd, 92 per cent.

John W. Logie, - 88 per cent.
William S. Harrison, 87·8 ,,
David Lamb, - 87·2 per cent.
Edwin A. Gibson, 87 ,,
George C. Stewart, 86·7 per cent.

SECOND-CLASS CERTIFICATES (alphabetically arranged).

William C. Allardice
Niel Campbell
Hugh Galt
John Gilmour
David Harris
Peter A. Laird
William Mason
John W. Mathie
John Miller
William Murray
Robert M'Ghie
John M'Gregor
Robert W. Nairn
James H. Naismith
Peter Paterson
Brownlow Riddell
Robert C. Robertson, M.A.
John G. Ronald
Archibald G. Sanders
James W. White
William Young
John Yuill

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR MATTHEW CHARTERIS, M.D.

FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLISTS { John Morton
James Carslaw, M.A.

John M'Donald, M.A.
James D. R. Monro, M.A.
Charles Wilson
William N. Sime
Robert Taylor
John Paterson, M.A.

SECOND-CLASS CERTIFICATES (in order of merit).

James B. Hartley
Archibald S. Dick
Hugh Kerr, M.A.
Malcolm Macnicol, M.A.
Robert E. Newton
John H. Teacher, M.A.
Thomas Kirkwood, M.A.
William J. Richard, M.A.
Donald D. Macdonald
James B. Littlejohn
George B. Buchanan, B.A. (Cantab.)
John A. Harrison

PRACTICAL PHARMACY.

Summer Session, 1890.

PROFESSOR MATTHEW CHARTERIS, M.D.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—John Morton.

FIRST-CLASS CERTIFICATES (in order of merit).

James B. Hartley
James Carslaw, M.A.
Archibald S. Dick
John H. Teacher, M.A.
Ernest L. Marsh
George L. Kerr
Alexander H. M'Cracken
Alexander White
David C. Laird

SECOND-CLASS CERTIFICATES (in order of merit).

Francis Small
John M'Donald, M.A.
James A. Aitken
David R. Miller
James B. Littlejohn
James D. R. Monro, M.A.
George Innes, M.A.
William J. Richard, M.A.
Hugh Kerr, M.A.
Campbell Highet

PRACTICE OF MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D.

THE CULLEN MEDAL—Daniel M'Kenzie, Larkhall.

FIRST-CLASS CERTIFICATES (in order of merit).

1. John Morton, Newmilns, Ayrshire
2. Niel Campbell, Glasgow
3. David Lamb, Glasgow
4. John W. Logie, Glasgow

SECOND-CLASS CERTIFICATES (in alphabetical order).

John J. Boyd, Dundee
David Coutts, Skipness, Kintyre
James Gray Duncanson, Hamilton
John Gilmour, Duntocher
Thomas Kirkwood, M.A., Greenock
James D. R. Monro, M.A., Arbroath
John M'Donald, M.A., Wishaw
Robert M'Ghie, Lichfield
John M'Gregor, Ayr.
William J. M'Kendrick, Fort-William
Robert W. Nairn, Johnstone
William J. Richard, M.A., Glasgow
Robert C. Robertson, M.A., Kilmarnock
George Clark Stewart, Glasgow
James Todd, Glasgow
William Watson, Strathaven
Charles Wilson, Drymen
William Young, Hillhead

CLINICAL MEDICINE.

Professor William T. Gairdner, M.D., LL.D.

THE WILLIAM CULLEN MEDAL { William C. Allardice, Glasgow
Daniel M'Kenzie, Larkhall } Equal

FIRST-CLASS CERTIFICATES (in order of merit).

1. Robert J. Marshall, Girvan
2. Niel Campbell, Glasgow
3. John Frew, Wishaw

SPECIAL PRIZE.

For Best Notes of Lectures and Clinical Demonstrations during the Session—James William White, Crosshill

SECOND-CLASS CERTIFICATES (in alphabetical order).

James Gray Duncanson, Hamilton
Thomas Kirkwood, M.A., Greenock
Robert Langmuir, M.A., Glasgow
John M'Donald, M.A., Wishaw
William J. M'Kendrick, Fort-William
William M'Walter, Partick
William Mason, Strathaven
William J. Richard, Glasgow
Robort C. Robertson, M.A., Kilmarnock
Archibald G. Sanders, Hutton, Dumfriesshire
Robert Taylor, Kilmaurs, Ayrshire
James Laurie White, Coatbridge
James Wm. White, Glasgow
James M. Young, Hillhead

CLINICAL MEDICINE.

Professor T. M'Call Anderson, M.D.

Summer Session, 1890.

FIRST-CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

1. William Harrop Parry
2. David Coutts
3. Thomas B. Riddall
4. { Thomas Berry
Thomas J. Freeman
5. { William Roberton
John M'Gregor

JUNIOR DIVISION.

1. James Carslaw, M.A.
2. John Paterson, M.A.
3. Hugh Kerr, M.A.
4. { James D. R. Monro, M.A.
James Thomson
Charles Wilson
5. William B. Brodie

Winter Session, 1890-91.

SENIOR DIVISION.

MEDALLIST—David Smith.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Brownlow Riddall
2. Lewis D. Temple
3. James Stirling
4. William Barbour
5. { William T. M. Wallace
John F. Barr, B.Sc.

JUNIOR DIVISION.

MEDALLIST—John Morton.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Robert Bishop
2. Thomas Hamilton
3. Andrew Wauchope / Charles F. Wylie
4. William Walton Don

SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D.

SENIOR DIVISION.

MEDALLIST—Hugh Galt.

FIRST-CLASS CERTIFICATES (in order of merit).

John W. Logie
John Yuill
William Watson
George C. Stewart
John Gilmour
John Frew
James W. White
William Young

HIGH COMMENDATION (alphabetically).

Willam C. Allardice
James Gray Duncanson
Alex. R. Ferguson
Henry E. Jones
John M'Gregor
Robert W. Nairn
James H. Naismith
James L. White
William S. Young

JUNIOR DIVISION.

MEDALLIST—John H. Teacher, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

George B. Buchanan, B.A. (Cantab.)
George L. Kerr
Johnstone Brown
Hamilton C. Marr
John Paxton
Robert E. Newton
Barclay Wiggins
James H. Ormond

HIGH COMMENDATION (alphabetically).

Thomas Divine
William Fulton
William Irwin
James B. Littlejohn
Campbell S. Marshall
Gavin M'Callum
Peter M'Bryde
John Patrick, M.A.
Andrew Wauchope

CLINICAL SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D.

SENIOR DIVISION.

MEDALLIST—William Young.

FIRST-CLASS CERTIFICATES (in order of merit).

John M'Gregor / John Yuill } Equal
Charles H. M'Ilraith, M.A.
Daniel M. Taylor, M.A.
Robert W. Nairn

JUNIOR DIVISION.

MEDALLISTS { Robert Y. Aitken / Johnstone Brown } Equal

FIRST-CLASS CERTIFICATES (in order of merit).

Hamilton C. Marr
Archibald S. Dick
Alexander Crawford
John Cumming
Alexander Dodds } Equal
Robert Grieve, M.A.
James B. Hartley
Clarence B. Harrison
Owen G. Jones

HIGH COMMENDATION (alphabetically).

Robert R. Manners
Gavin M'Callum
Thomas M'Nay
John Patrick, M.A.
Malcolm A. M. Sinclair
Archibald A. Warden, M.A.
James L. Watson

CLINICAL SURGERY.

PROFESSOR GEORGE BUCHANAN, M.A., M.D., LL.D.

SENIOR DIVISION.

UNIVERSITY MEDAL—James Aitken.

FIRST-CLASS CERTIFICATE—Robert M'Ghie.

JUNIOR DIVISION.

UNIVERSITY MEDALS—

George B. Buchanan, B.A. (Cantab.) } Equal
Robert S. Frew

FIRST-CLASS CERTIFICATES (in order of merit).

1. Hugh Lawrie
2. Thomas Divine
3. Thomas Colvin
4. James H. Ormond
5. George Lewis Davies
6. James Thomson

INSTITUTES OF MEDICINE.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—
John J. Urwin.

FIRST-CLASS CERTIFICATES (in order of merit).

William S. Cook } Equal
Campbell S. Marshall
William Lewelyn Jones } Equal
John Morrison
Johnstone Brown
John F. R. Gairdner
John Ewing Adam
Robert Y. Aitken

PRACTICAL PHYSIOLOGY.

Summer, 1890.

JOHN HUNTER MEDALS AND FIRST-CLASS CERTIFICATES.

James Carslaw, M.A. } Equal
John Morton

FIRST-CLASS CERTIFICATES (in order of merit).

John H. Teacher, M.A.
Charles Wilson
John M'Donald, M.A.
James M. Young
James D. R. Monro, M.A.
Archibald S. Dick

SECOND-CLASS CERTIFICATES (in order of merit).

George L. Kerr
Malcolm Macnicol, M.A.
William Brodie Brodie
Alex. R. Ferguson
William S. Cook

ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIOR CLASS.

MEDAL { Hugh Lawrie / John J. Urwin } Equal

FIRST-CLASS CERTIFICATE OF MERIT.

William S. Cook

SECOND-CLASS CERTIFICATES OF MERIT (in order of merit).

Gavin M'Callum
Johnstone Brown
Campbell S. Marshall } Equal
James D. O. Wilson } Equal
John F. R. Gairdner } Equal
Henry E. Jones } Equal
Peter M'Bride } Equal
Frederick H. Waddy } Equal
John W. Findlay

JUNIOR CLASS.

MEDAL—William K. Hutton, M.A.

FIRST-CLASS CERTIFICATES OF MERIT (in order of merit).

Alexander MacLennan } Equal
James C. Robertson, M.A. } Equal
Robert Morton

SECOND-CLASS CERTIFICATES OF MERIT (in order of merit).

Robert K. Currie
George Mowat
Alexander Macphail } Equal
Harry A. Pattullo } Equal
Ebenezer Sugden } Equal
Robert Tennent } Equal
William Park Porter

DEVELOPMENT AND SURGICAL ANATOMY.

Summer, 1890.

PRIZES.

1. John Paterson, M.A.
2. James D. R. Monro, M.A.

CERTIFICATES OF MERIT (in order of merit).

William J. Richard, M.A. } Equal
John J. Urwin } Equal
Malcolm Macnicol, M.A.
Thomas Kirkwood, M.A. } Equal
John H. Teacher, M.A. } Equal
George L. Kerr } Equal
John M'Donald, M.A. } Equal
Alex. R. Ferguson
Hugh Kerr, M.A.

NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

ZOOLOGY.

Summer, 1890.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Thomas A. Brennan.

SECOND-CLASS CERTIFICATES.

Archibald A. Warden, M.A.
Johnstone Brown
Gavin M'Callum
James C. M'Neillie

Winter Session, 1890-91.

WILLIAM HUNTER MEDAL—James Currie Robertson, M.A.

SECOND-CLASS CERTIFICATES.

James M'Cash,	74 per cent.
Thomas W. Bayne,	70 ,,
Alex. MacLennan,	66 per cent.
Farquhar Macrae,	66 ,,

PRACTICAL ZOOLOGY

Summer, 1890.

WILLIAM HUNTER MEDAL—James C. Robertson.

Winter Session, 1890-91.

MEDAL—Leslie J. Paton.

FIRST-CLASS CERTIFICATES.

Leslie J. Paton
Alexander MacLennan

SECOND-CLASS CERTIFICATES.

Allan Ferguson
Thomas S. Goodwin

GEOLOGY.

WILLIAM HUNTER MEDAL—William B. Venters.

SECOND-CLASS CERTIFICATE.

David T. Smith

BOTANY.

PROFESSOR F. O. BOWER, M.A., D.SC., F.L.S.

MEDAL—William S. Cook.

FIRST-CLASS CERTIFICATE.

Frederick Dittmar, M.A.

SECOND CLASS.

James Rankin } Equal
David R. Boyd } Equal
William H. Lang
Andrew C. Park } Equal
James F. Gemmill } Equal
James C. Robertson
James Fullarton
William P. Porter
Leslie J. Paton
William L. Jones } Equal
Archibald Young } Equal
John Clark } Equal
Alex. C. Robertson } Equal

PRACTICAL CLASS.

MEDAL—John J. Urwin.

FIRST-CLASS CERTIFICATES.

James C. Robertson
Alexander MacLennan
Andrew C. Clark } Equal
William Clow } Equal

SECOND CLASS.

William K. Hutton
John C. Robertson
Robert W. Forrest
Clarence B. Harrison } Equal
Peter L. L. Craig
William H. Lang
James D. O. Wilson
James Rankin
William S. Cook } Equal
Robert Aitken
Edward J. Primrose

HERBARIUM PRIZE AND SECOND-CLASS CERTIFICATE.

Campbell S. Marshall

PRACTICAL CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL—Johnstone Brown.

FIRST-CLASS CERTIFICATES.

Johnstone Brown
Robert K. Currie
Andrew Donald
Thomas Kay

SECOND-CLASS CERTIFICATES.

Robert Aitken
James Clark
George W. Francis
William A. Mackay
Robert R. Manners
Campbell S. Marshall
William P. Porter
Ebenezer Sugden

CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D.

JOSEPH BLACK MEDAL—James Blacklock Henderson.

FIRST-CLASS CERTIFICATES.

James Blacklock Henderson
David Thomson Smith

SECOND-CLASS CERTIFICATES.

John Anderson
William Clow
Robert K. Currie
James Fairlie Gemmill, M.A.
Farquhar Macrae
Alexander Shearer
William Herbert Shields

PATHOLOGY.

LECTURER—JOSEPH COATS, M.D.

JOHN HUNTER MEDAL—John Morton, 93 per cent.

FIRST-CLASS CERTIFICATES.

Niel Campbell,	90	per cent.
John Paterson, M.A.,	87	,,
James Carslaw, M.A.,	84	,,
James D. R. Monro, M.A.,		
Malcolm Macnicol, M.A.,	83	,,
Peter C. MacRobert,		
Alfred A. Young, M.A.,	82	,,
John M'Donald, M.A.,	80	,,
Charles Wilson,		
James Aitken,	78	,,
Thomas Kirkwood, M.A.,		
John H. Teacher, M.A.,		

James M. Young,	77	per cent.
Robert Taylor,	76	,,
Hugh Kerr, M.A.,	75	,,
William S. Harrison,		

SECOND-CLASS CERTIFICATES.

Robert Guy,	73	per cent.
James A. Robertson,		
S. W. Thompstone,		
William MacKenzie Brown,	72	,,
Hamilton Clelland Marr,	71	,,
William J. Richard, M.A.,		
William N. Sime,	69	,,
Alexander James Miller,	68	,,
John A. Harrison,	67	,,
Henry E. Jones,		
Hugh Lawrie,		
Robert E. Newton		
William H. M. Alexander,	66	,,
James B. Hartley,	65	,,
Alexander S. M'Pherson,		
Andrew Wauchope,		

Faculty of Arts.

ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.SC., M.INST., C.E.

CLASS IV.

1. Robert M. Ferrier, Ardrossan
2. Alexander G. G. Guthrie, Govan; William Sharpe, Glasgow — Equal

CLASS II.

1. Charles D. Barker, Glasgow
2. William Muirhead, Maryhill; William Richmond, Glasgow — Equal

Next in Order of Merit.

4. Hugh R. Brownlee, Cape Colony; David G. Taylor, Kilmaurs — Equal

CLASS I.

1. Robert Kennedy, Kilmarnock
2. Charles D. Barker, Glasgow; John H. A. M'Intyre, Glasgow; William Richmond, Glasgow — Equal

Walker Prizes for Written Examinations.

1. Robert M. Ferrier, Ardrossan
2. Alexander G. G. Guthrie, Govan

Walker Prizes for Oral Examination.

1. Robert M. Ferrier, Ardrossan
2. Alexander G. G. Guthrie, Govan

The George Harvey Prize of £20.
Robert M. Ferrier, Ardrossan

Next in Order of Merit.
Alexander G. G. Guthrie, Govan

SENIOR CLASS OF ENGINEERING DRAWING AND CALCULATIONS.
William Muirhead, Maryhill

MIDDLE CLASS OF ENGINEERING DRAWING AND CALCULATIONS.
Alexander Bain, Glasgow

JUNIOR CLASS OF ENGINEERING DRAWING AND CALCULATIONS.
George Blair, Glasgow
James C. Greer, Glasgow
Gardiner H. Mackillop, Glasgow
} Equal

Recommended for Muir Bursaries.
John Irvine | William Muirhead

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR PHILIP JENKINS.

SENIOR.

1. Robert M. Ferrier, Ardrossan
2. David Nicholas, Pembrokeshire

JUNIOR.

1. Frank W. Hibbs, U.S.A.
2. George H. Rock, U.S.A.

MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D.

UPPER SENIOR.

1. Horatio S. Carslaw (Cunninghame Gold Medal)
2. Daniel Lamont

SENIOR.

1. Walter Stewart, Schoolhouse, Gartsherrie
2. Alexander G. G. Guthrie, Glasgow High School
3. Thomas Hunter, Kilmarnock Academy
4. Robert M. Ferrier, Ardrossan

Written Examinations—
Walter Stewart, Schoolhouse, Gartsherrie

Mr. Stewart also obtains the Muir Senior Mathematical Bursary, subject to the conditions in the Calendar.

MIDDLE—A. DIVISION.

1. William A. Lindsay, F.C. Normal and John Street School
2. Thomas Reid, Paisley
3. Ebenezer Mitchell, F.C. Normal and Kilmarnock Academy
4. Edwin S. Monro, E.C. Normal

MIDDLE—B. DIVISION.

1. James Rodger, F.C. Normal
2. John Shaw, Hamilton Academy
3. { John Paton, Ayr Academy
   { Andrew Robertson, Kilmarnock Academy
5. Samuel Scott, Carlisle Grammar School

Written Examinations—Open to both Divisions of the Class.

1. James Rodger
2. William A. Lindsay.

Mr. Rodger also obtains the Muir Junior Mathematical Bursary, subject to the conditions in the Calendar.

LOWER JUNIORS—A. DIVISION.

1. Robert Simpson, F.C. Normal and Gourock Eastern P.S.
2. Peter D. Pringle, Glasgow
3. Robert Gibson, E.C. Normal and Kilmarnock Grammar School
4. Archibald Paterson, E.C. Normal

Written Examinations.
Robert Simpson

VACATION EXERCISES.

LAST YEAR'S MIDDLE.
James Dunlop

LAST YEAR'S SENIOR.
Daniel Lamont

ASTRONOMY.

PROFESSOR ROBERT GRANT, LL.D., F.R.S.

1. Walter Stewart, Gartsherrie
2. Gilbert Buchanan, M.A., Ayr
   Robert M. Ferrier, Ardrossan
3. James Fenwick, Sydney, Australia

NATURAL PHILOSOPHY.

PROFESSOR SIR WILLIAM THOMSON, LL.D., D.C.L., Pres. R.S.

FIRST YEAR STUDENTS.

1. Walter Stewart, Gartsherrie
2. George E. Allan, Glasgow
3. Charles Forbes, Dingwall
4. William C. Anderson
   John Miller Cook, Ayr
6. Robert M. Ferrier, Ardrossan
7. Henry A. Watson, Glasgow
8. Alexander Donaldson, Stevenston
9. Charles S. Dougall, Kippen
   Alexander Flint, Crossmyloof
   Andrew G. Thomson, Kilmarnock
12. John Irvine, St. Andrews
13. Peter L. L. Craig, Dumbarton
14. Alexander W. Black, Cupar-Fife
15. David Young, Stranraer
    William Muirhead, Maryhill
    Ernest A. Walker, Uddingston

SECOND YEAR STUDENTS.

1. John Clark, Glasgow
2. Daniel Lamont, Glasgow

ADVANCED NATURAL PHILOSOPHY CLASS.

James Robert Erskine Murray

LABORATORY STUDENTS.

William H. Anderson, Queen's Park, Glasgow
John Clark, Glasgow

MORAL PHILOSOPHY.

PROFESSOR EDWARD CAIRD, LL.D.

I. Prizes for General Eminence in the Essays and Examinations of the Session.

1. (Buchanan Prize), David Graham, Lugton, Beith
2. James A. Clark, Barrhead
3. { Samuel D. Cowan, Kirkintilloch
   William G. Skinner, Glasgow
5. Robert Lamond, Glasgow
6. { David Young, Strathaven
   Alexander M. Hamilton, Glasgow
8. David M. Stewart, Lenzie
9. { Adam Howat, Dalmellington
   Archibald M'Lean, Paisley
11. { John Calderwood, Pollokshields
   Robert C. Stewart, Auchterarder
13. { William O. Clazy, Paisley
   David S. Merrow, Glasgow
15. { Walter A. Campbell, Paisley
   William Macmaster, Paisley
   Frank H. L. Paton, Melbourne
   Andrew G. Thomson, Kilmarnock

II. Prizes for Written Examinations on the Lectures delivered during the Session:—

1. (Prize offered by former Students), Samuel D. Cowan
2. David Graham

III. Prizes for Vacation Work:—

A. For the best Examination on Plato's "Republic"—William G. Skinner
B. For the best Examination on Ferrier's "Lectures" and Zeller's "Socrates"—Robert Lamond

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HIGHER MORAL PHILOSOPHY CLASS.

Prizes for Excellence in Written Examinations:—

1. Nicholas Macnicol, Dunoon
2. { Joshua Ferguson, M.A., Crosshill, Glasgow
   Robert S. Horne, Slamannan

POLITICAL ECONOMY CLASS.

Conducted by MR. WILLIAM SMART, M.A., as Assistant to PROFESSOR CAIRD.

1. Walter Nelson, Glasgow
2. Andrew G. Murray, Stirling

Prize for Special Reading:—

Walter Nelson, Glasgow
(*Proxime accessit*) Gilchrist G. Alexander, Partick

LOGIC AND RHETORIC.

PROFESSOR JOHN VEITCH, LL.D.

I. For Eminence in the Work of the Class during the Session, as shown in Oral and Written Examinations and Essays:—

First Prize of the Class, open to Senior and Junior Students (The Buchanan Prize)—Andrew E. Wallace, The Manse, Glenbuck

SENIOR DIVISION.

1. Gilchrist G. Alexander, Partick
2. Charles W. Thomson, Dennistoun, Glasgow
3. Donald MacGillivray, Newtown House, Inveraray
4. David T. Smith, Paisley
5. Thomas Wardrop, Cumnock
6. Archibald Reith, Glasgow
7. Hugh A. Hamilton, Saltcoats
8. John Struthers, Strathaven
9. James MacQueen, Busby
10. Ebenezer Scott, Glasgow
11. John Wilson, Armadale, Linlithgowshire
12. Cecil E. Moore, Glasgow
13. John M. Connor, Crosshill, Glasgow

JUNIOR DIVISION.

1. Gavin L. Pagan, Bothwell
2. James Wilson, Falkirk
3. Charles W. Hutcheson, Glasgow
4. Walter S. Findlay, Glasgow
5. William M. Steven, Renfrew
6. Donald N. Dow, Glasgow

II. Work prepared during the Summer Vacation.

A. Students of Session 1890-91.

Preliminary Examination in Institutes of Logic and Descartes.

SENIORS.

1. John M. Connor, Crosshill
2. { John Mushet, Stranraer / John Baillie Craig, Irvine } Equal

JUNIORS.

1. Gavin L. Pagan, Bothwell
2. { James Wilson, Falkirk / Walter S. Findlay, Glasgow } Equal

B. Students of Session 1889-90.

A. ESSAY—Theories of Perception.

John Calderwood, Pollokshields

B. READING—Descartes

1. William G. Skinner, Glasgow
2. John Calderwood, Pollokshields

ADVANCED LOGIC CLASS.

HIGHER METAPHYSICS.

ESSAY—HUME AND KANT ON CAUSALITY.

Nicholas Macnicol, Dunoon.

ENGLISH LITERATURE.

PROFESSOR ANDREW C. BRADLEY, M.A.

SENIOR.

For Eminence in the Work of the Class during the Session.

1. (The BUCHANAN PRIZE), Campbell C. Edgar, Mauchline, Ayrshire
2. Hugh A. Hamilton, Saltcoats
3. James Mackenzie, Forres
4. Samuel Scott, Carlisle
5. John Paton, Ayr
6. John H. Pagan, Bothwell
7. Charles S. Dougall, Kippen, Stirling
8. John Baillie Craig, Irvine; Andrew Bonar Nielson, Glasgow } Equal

JUNIOR.

For Eminence in the Work of the Class during the Session.

1. John Morgan Connor, Crosshill, Glasgow
2. John Oliver Dick, Glasgow
3. Charles W. Hutcheson, Glasgow
4. James Hogg Gillespie, Glasgow
5. William Macmaster, Paisley
6. William Barrowman, Glasgow; Charles William Thomson, Glasgow } Equal
8. James D. Robertson, Glasgow
9. Joseph Macnaughtan, Bearsden

GREEK.

PROFESSOR GEORGE G. A. MURRAY, B.A.

I. Prizes for General Excellence in the Work of the Class during the Session.

SENIOR CLASS, 8 A.M.

JEFFREY GOLD MEDAL—William Blue.

ORDINARY PRIZES.

1. Robert G. Nisbet
2. Ephraim Henderson
3. Joseph F. M'Fadyen
4. John A. Duke
5. John M. Forsyth
6. Henry N. Brailsford
7. Robert B. Walker
8. James Dick
9. James S. Dunlop
10. Malcolm Dunlop

An Extra Prize was awarded to James Law.

UPPER MIDDLE CLASS, 10 A.M.

SCOTT-MACFARLAN GOLD MEDAL—John Charles Scott.

ORDINARY PRIZES.

1. Edwin S. Munro
2. Roderick M. Matheson
3. John S. Thomson
4. David G. Webster
5. William Gow; Henry A. Williamson
7. Andrew Robertson
8. Mungo M'C. Fairgrieve

Lower Middle Class, 10 a.m.

PRIZES.

1. Alexander M. Ferguson
2. James Park
   Peter D. Pringle
   William A. Lindsay
5. Thomas Morrow

Junior Class, 12 noon.

PRIZES.

1. John L. Frood
2. Joseph Muir
   John Fulton
   David Tripney
5. Joseph M. Corbett

II.—Prizes for Written Examinations and Exercises.

Senior Class.

Demosthenes—Robert G. Nisbet
Aristophanes—William Blue
Composition—Ephraim Henderson
  Robert B. Walker

Senior and Private Class.

Aeschylus—Edward Hamilton Wallace
Pindar—Edward Hamilton Wallace
Unseen Translation—Ebenezer Scott

Middle Class.

Lyrics and Philology—John C. Scott
Lucian and Euripides—Roderick M. Matheson

Vacation Work.

SENIOR AND PRIVATE CLASS.

Robert Yeomans

SENIOR CLASS.

1. Prose—Robert G. Nisbet
2. Aeschylus—Robert G. Nisbet
   Joseph F. M'Fadyen

Blackstone Examination.

Cowan Gold Medal—Edward Hamilton Wallace
Sandford Scholarship—Edward Hamilton Wallace

HUMANITY.

Professor George G. Ramsay, M.A., LL.D.

I. Prizes for General Eminence during the Session, awarded according to the results of Written Examinations.

Junior Class, 8 a.m.

1. John L. Frood, Glen Cosie (Lanark Grammar School)
2. Donald J. Robertson, Breakish, Skye (Broadford Public School)
3. Peter Bennett, Ballyard, Ireland (Lanark Grammar School)
4. John Richmond, Newmilns (Newmilns Public School)
5. William Beck, Holytown (St. John's Grammar School)

Middle Class, at 8 and 11 a.m.

1. David G. Webster, Helensburgh (Larchfield)
2. John S. Thomson, Bute (Rothesay Academy)
3. Henry A. Williamson, Lesmahagow (Hamilton Academy)
4. Ebenezer Mitchell, Kilmarnock (Kilmarnock Academy)

5. Robert Simpson, Chicago (Gourock Public School)
6. Samuel H. M'Ewing, Stornoway (Hutchesons' Grammar School)
7. John Wilson, Armadale (Bathgate Academy)
8. David H. M'Curtain, Glasgow (Free Church Training College)

SENIOR CLASS, 9 A.M.

1. Cowan Gold Medallist and First Prizeman—Joseph F. M'Fadyen, Glasgow (Hutchesons' Grammar School)
2. William Blue, Glasgow (Hutchesons' Grammar School)
3. John Ruggan, Rutherglen (Hutchesons' Grammar School)
4. John C. Scott, Carlisle (Carlisle Grammar School)
5. John A. Duke, Campsie (Albany Academy)
6. James Dick, Glasgow (Garnethill Public School)
7. { Ephraim Henderson, Ayr (Ayr Academy)
8. { James Lyle, Rothesay (Rothesay Public School)
9. William Gow, Coupar-Angus (Dundee High School)
10. Henry N. Brailsford, Blairgowrie (Dundee High School)

SENIOR AND PRIVATE CLASS, 1 P.M.

The Muirhead Prize, for the Best Examination on the Lectures and Prelections delivered during the Session. The Books read were :—Plautus, Miles Gloriosus ; Horace, *Satires* II. 1-6 ; Juvenal, *Satires*.

1. Robert G. Nisbet, Strathaven (Hutchesons' Grammar School)
2. Ebenezer Scott, Durham (Woodside Public School)
3. Edward H. Wallace, Sunderland (Hamilton Academy)

For Latin Prose Competition—Senior Class.

SECTION I.

Robert G. Nisbet, Strathaven

Distinguished—
John Paton, Ayr (Ayr Academy)

SECTION II.

John A. Duke, Campsie

VACATION EXERCISES.

I. For the Best Examination in Livy XXI. ; Horace, *Odes* II. ; Virgil, *Georgics* I., II.

OPEN TO THE SENIOR CLASS OF 1890-91.

Joseph F. M'Fadyen, Glasgow

II. For the Best Examination in Virgil, *Æneid* II. 1-468 ; Cicero, *De Senectute.*

OPEN TO THE JUNIOR CLASS OF 1889-90.

William Mackay, Fearn, Ross-shire (Raining Public School, Inverness)

III. For the Best Short Latin Essay upon the Subject, *Proprium humani generis est odisse quem laeseris.*

OPEN TO THE SENIOR CLASS OF 1889-90.

John Paton, Ayr
Distinguished—Ebenezer Scott

IV. For the Best Translation into Latin of Thackeray's Esmond, Book VII., chap. 12, from "Our friends kept a pretty close watch," down to "before his business was ended."

OPEN TO THE SENIOR CLASS OF 1890-91.

Joseph F. M'Fadyen, Glasgow

CLASS FOR UNSEEN TRANSLATIONS HELD BY EUING FELLOW.

Robert G. Nisbet, Strathaven

THE BLACKSTONE EXAMINATION.

THE COWAN GOLD MEDAL—Robert G. Nisbet, Strathaven

X.—*EXAMINATION QUESTIONS.*

I.—ENTRANCE EXAMINATION IN ARTS.

November, 1890.

ENGLISH.

1. Write and punctuate carefully the passage now to be read.

2. Correct, if you think it faulty, the spelling in—*guage*, *phrenzy*, *trivialty*, *offerred*, *seive*, *jewellery*, *sollicitous*, *wagon*, *apothegm*.

3. (*a*) Exemplify plural forms of—*grass*, *salmon*, *health*, *cannon*, *thunder*, *liberty*, *copper*.

(*b*) Conjugate *lay*, *fell*, *set*, *raise*, and the intransitive verbs from which they are derived.

(*c*) Give the composition of the following words, explaining the different parts:—*alone*, *naughty*, *unfurl*, *disembark*, *ashore*, *spital*.

4. By means of short sentences or phrases distinguish—*venal*, *venial*; *momentous*, *momentary*; *genuine*, *authentic*; *ingenious*, *ingenuous*.

5. Criticise these phrases—*under these circumstances*; *unattended obsequies*; *intending bridegrooms*; *our mutual friend*.

6. Improve these sentences:—

(*a*) Here stood the temple of some heathen deity or that of the paphian venus.

(*b*) There was another reason for this appointment from that which he alleged.

(*c*) Homer says 'That gashes in celestial bodies soon unite again.'

(*d*) This did not prevent me asking a question apiece at his accomplices.

(*e*) And all as one man will join against all who perplex our obedience.

7. Suggest the derivation of—*boon*, *crucial*, *humble*, *fashion*, *knave*, *wapenshaw*, *brand*.

8. (*a*) Parse fully the words in italics:—

Then with a long and tacit step, one *arm*
Behind, and every finger *wide* outspread,
He lookt and totter'd on a black abyss.
He thought he sometimes heard a distant voice
Breathe thro' the cavern's mouth, and further on
Faint murmurs now, now hollow groans *reply*.
Therefore suspended he his crook *above*,
Dropt it and heard it rolling step by step:
He enter'd, and a mingled sound arose
Like *one* (when shaken from some temple's roof
By jealous hand, *they* and their fretted nest)
Of birds that wintering watch in Memnon's tomb,
And tell the halcyons when spring first returns.

(*b*) Have you any comment to make on, *tacit step*, *rolling step by step*, *fretted nest*, *halcyons*, and on the spelling in this passage?

(*c*) Write a prose version of the part from *a mingled sound* to the end.

9. Write a short essay on one of the following subjects:—

(*a*) Professionalism in Athletic games.

(*b*) Some locality visited by the writer (descriptive).

(*c*) Eloquence.

LATIN.

1. State any rules that guide you in forming (1) the ablative singular, (2) the genitive plural, of nouns of the third declension; write the abl. sing. and gen. plur. of the following words, if they are used:—*torquibus*, *pondo*, *fauces*, *vates*, *reges*, *unguis*, *rostra*, *opis*, *supellex*, *stirpes*, *minora*, *comitia*, *exercitum*.

2. Decline together these sets of words:—*Haec pecus; nulla acies; quibusdam viris.*

3. Write the third plural future indicative, and the second singular imperative of—*fero*, *ferio*, *sum*, *orior*, *taceo*, *malo*, *facio*, giving active and passive forms if they occur; write all the participles with their meanings of—*praesto*, *polliceor*, *audeo*.

4. Write the positive, comparative, and superlative of adverbs derived from *libens*, *audax*, *bonus*, *aeger*, *difficilis*, *tutus;* mention the cases governed by *peritus*, *patiens*, *juvo*, *impero*, *posco*, *aptus*, *opus*, with examples.

5. Translate (*a*) into Latin:—

About midnight; nearly five hundred Romans; in my opinion; as was their custom; free from all danger; the opinion of the majority carried the day.

(*b*) into English:—

Frequens senatus; obvios percontari; conclamare vasa; vacare studiis; suum cuique tribuito; si vis, potes.

6. (*a*) Translate into English:—

Et Campani, audita sua sociorumque clade, legatos ad Hannibalem miserunt, qui nuntiarent, duos consules ad Beneventum esse diei iter a Capua; tantum non ad portas et muros bellum esse; ni propere subveniat, celerius Capuam quam Arpos in potestatem hostium venturam. Ne Tarentum quidem tanti debere esse, ut Capuam, quam Carthagini aequare solitus sit, desertam indefensamque populo Romano tradat.

(*b*) What principles of Syntax explain *clade*, *venturam*, *tanti*, *iter* in (*a*) and *bidui* in the sentence 'Castra aberant bidui'?

(*c*) Turn into direct speech the last sentence in (*a*).

7. Translate into Latin:—

(*a*) Every man's fortune is in his own hands.

(*b*) Whoever strikes a Carthaginian is a Roman to me.

(*c*) He declares that this is the only way of safety.

(*d*) You will scarcely find a man of any nation to compare with Cæsar.

(*e*) It is more honourable to serve one's country than to be rich or noble.

8. Derive—*diu*, *senatus*, *vel*, *ambages*, *juxta*, *publicus*, *vacca*.

GREEK.

1. Write the dative and vocative singular and the dative plural of—*κριτής, υἱός, ἵππευς, Ἕλλην, ἀνάβασις, πούς, ἥρως, πατήρ, γίγας.*

2. Write the complete accusative singular of—*μείζων, χαρίεις, ἥμισυς, πᾶς, εἷς, οὗτος, τιθείς, τεθνηκώς.*

3. Form adverbs from the words—*οἶκος, ἕκαστος, ταχύς, πᾶς, εἰκός*: and write the comparative and superlative of—*σοφῶς, κακῶς, πρωΐ, πολλάκις.*

4. (*a*) Write the imperfect indicative active of *δίδωμι.*
   (*b*) Conjugate with aorists—*τύπτω, λύω, βαίνω.*

5. (*a*) Translate into English these phrases :—
   (1) *ναυσίπορος.*
   (2) *ἀγορὰν παρέχειν.*
   (3) *δι' ἑρμηνέως.*
   (4) *ἤδη ἡλίου δύνοντος.*
   (5) *ἀπέχοντες ἀλλήλων παρασάγγην.*
   (6) *πορευτέον ἐστὶν ἡμῖν.*

(*b*) Suggest a Greek noun to be qualified by (1); explain the syntax of (4) and (5); give the Latin for (6).

6. (*a*) Translate into English :—

Μετὰ ταῦτα ἀφικνοῦνται ἐπὶ τὸν Ζαπάταν ποταμόν, τὸ εὖρος τεττάρων πλέθρων. καὶ ἐνταῦθα ἔμειναν ἡμέρας τρεῖς. ἐν δὲ ταύταις ὑποψίαι μὲν ἦσαν, φανερὰ δὲ οὐδεμία ἐφαίνετο ἐπιβουλή. ἔδοξεν οὖν τῷ Κλεάρχῳ συγγενέσθαι τῷ Τισσαφέρνει καὶ, εἴ πως δύναιτο, παῦσαι τὰς ὑποψίας, πρὶν ἐξ αὐτῶν πόλεμον γενέσθαι· καὶ ἔπεμψέ τινα ἐροῦντα, ὅτι συγγενέσθαι αὐτῷ χρῄζει. ὁ δὲ ἑτοίμως ἐκέλευεν ἥκειν. Ἐπειδὴ δὲ συνῆλθον, λέγει ὁ Κλέαρχος τάδε· ἐγώ, ὦ Τισσαφέρνη, οἶδα μὲν ἡμῖν ὅρκους γεγενημένους καὶ δεξιὰς δεδομένας μὴ ἀδικήσειν ἀλλήλους· φυλαττόμενον δὲ σὲ ὁρῶ ὡς πολεμίους ἡμᾶς. καὶ ἡμεῖς ὁρῶντες ταῦτα ἀντιφυλαττόμεθα.

(*b*) Parse fully—*δύναιτο, ἐροῦντα, δεδομένας, σέ, ἀντιφυλαττόμεθα.*

(*c*) Give the uncontracted forms of—*ἀφικνοῦνται, ὁρῶντες* and derive *σπονδαί, ὑποψίαι, δεξιάς, ἀδικήσειν* and *ὅρκους.*

7. State (*a*) the position of the following places ;
   (*b*) any historical events connected with them :—
   Aulis, Plataea, Eleusis.

MATHEMATICS.

1. (*a*) Which is the greater $\frac{2}{3}$ of $1\frac{1}{5}$ or $\frac{1}{7}$ of $5\frac{1}{4}$, and by how much ?

(*b*) What fraction of a square foot is a rectangle 3·04 in. long and ·005 inches broad ?

(*c*) Divide the difference between $\cdot 0\dot{5}$ and $\cdot 00\dot{5}$ by their sum.

2. Find the value of 3 qrs. 13 lbs. 7 oz. at £7 11s. 4d. per lb.

3. What sum must be invested on March 9 to provide, by October 14, an amount of £504 14s., the rate of interest being 5 per cent.?

4. A bankrupt can pay 5s. 9d. in the pound. If his assets were £500 more, he would be able to pay 6s. 5d. What are his debts ?

5. Find the G.C.M. of :

$$2x^2+3xy+6x+9y \text{ and } 3x^2-2xy+9x-6y.$$

6. Simplify (1) $\frac{x^4-y^4}{x^2-2xy+y^2}\times\frac{x^3-y^3}{x^2y+y^3}$; (2) $1+\frac{a}{1+a+\frac{2a^2}{1-a}}$.

7. Solve (1) $x+\frac{3x-5}{2}=12-\frac{2x-4}{3}$; (2) $\frac{2x-3}{8}-\frac{x-1}{2x}=\frac{1}{4}$.

8. If A wins 12 marbles from B, he will have one-fourth more than B will have. If however B should win 12 from A, he will have double what A has. How many marbles had each?

9. Prove that in a triangle of unequal sides, the greatest angle is opposite the greatest side.

10. ABC is a triangle, BC is bisected in D. Prove line AD is less than half the sum of BA and AC.

11. AB is a straight line, C is the middle point of this line and D is any other point in it. Prove that rectangle $AD \cdot DB +$ square on CD $=$ square on CA.

12. Given a rectilineal figure, show how to construct a square of the same area.

FRENCH.

1. Translate :—

(*a*) Il mourut quatre ans après elle, dans la quarante-deuxième année de son âge, et dans la trente-septième de son règne, lorsque l'empire, l'Espagne, la Hollande d'un côté, la France de l'autre, venaient de remettre la décision de leurs querelles à sa médiation, et qu'il avait déjà entamé l'ouvrage de la paix entre ces puissances.

(*b*) Nous avions jugé qu'il n'était pas nécessaire d'entrer dans un commerce particulier de lettres avec votre majesté; cependant, pour faire plaisir à sa majesté suédoise, et afin qu'on ne nous impute pas que nous faisons difficulté de satisfaire à son désir, nous vous félicitons par celle-ci de votre avénement à la couronne, et vous souhaitons que vous trouviez dans votre patrie des sujets plus fidèles que ceux que nous y avons laissés. Tout le monde nous fera la justice de croire que nous n'avons été payés que d'ingratitude pour tous nos bienfaits, et que la plupart de nos sujets ne se sont appliqués qu'à avancer notre ruine.

(*c*) Bois, mange, et dépense si tu veux vivre en réalité, car ce n'est pas vivre que de travailler tous les jours sur une chaise de bois ou sur un fauteuil de cuir. Tu mourras à ton tour, et si tu n'as pas le bonheur d'avoir un fils, tu laisseras éteindre notre nom, et mes florins étonnés se trouveront avoir un maître inconnu; ces florins neufs que nul n'a jamais touchés que mon père, moi et le fondeur. N'imite pas surtout ton parrain, Corneille de Witt, qui s'est jeté dans la politique, la plus ingrate des carrières, et qui bien certainement finira mal.

2. Parse fully the following words from passage (*a*):—*mourut*, *lorsque*, *venaient*, *entamé*, *entre*.

3. Parse the following words from passage (*b*), and give the conjugation :—*faisons*, *souhaitons*, *trouviez*, *croire*, *nous avons été payés*.

Give the first singular, present indicative in each case.

4. Put into French :—

Give me the book which I bought yesterday, I do not like that one. I no longer have the books of which you speak; I gave them to them as soon as they arrived.

Be active and industrious, my young friends, and you will certainly be happy.

I think I ought to tell you that the results of this examination will be announced to you very soon.

5. Put into French :—

Bruce then called to him the good Sir James Douglas, and said to him before them all—"My trusty friend, I made a vow that if ever I should be king of free Scotland I would go to the Holy Land and fight against the enemies of our Lord. But now I am laid low with this great sickness, and there is nothing left for me but to die, and I have resolved to send my heart there to fulfil my vow."

GERMAN.

1. Write the genitive singular and nominative plural of—*Tochter*, *Haus*, *Nachbar*, *Doctor*, *ich*; give the gender of—*Bericht*, *Nachricht*, *Anmuth*, *Wohl*; and the different plural forms of—*Band*, *Wort*, *Mann* with their meanings.

2. Form adjectives from—*Tag*, *Furcht*, *Gold*, *Tugend*; and give the composition of—*Argwohn*, *Wagestücke*, *Botschaft*.

3. Write the imperfect indicative of—*dürfen*; the 1st sing. imperfect and past participle of—*geben*, *brechen*, *helfen*; and the German for (*a*) I shall be praised, (*b*) I must not, (*c*) I ought to have done it.

4. Give the German for (*a*) Farewell, (*b*) As much again, (*c*) The landlord of the Red Lion; the English for (*a*) Es geht nicht, (*b*) Zu Grunde richten, (*c*) Zu Stande bringen, (*d*) Es begab sich.

5. (*a*) Translate into English :—

Mortimer (*betroffen*).

Entdecktest du dem Ritter deinen Wunsch?

Elisabeth.

Mich reuet, dass ich's that.

Mortimer.

Entschuldige
Den alten Mann. Die Jahre machen ihn
Bedenklich. Solche Wagestücke fordern
Den kecken Muth der Jugend—

Elisabeth (*schnell*).

Darf ich Euch—

Mortimer.

Die Hand will ich dir leihen, rette du
Den Namen, wie du kannst—

Elisabeth.
Ja, Sir! wenn Ihr
Mich eines Morgens mit der Botschaft wecktet:
Maria Stuart, deine blut'ge Feindin,
Ist heute Nacht verschieden!

Mortimer.
Zählt auf mich.

Elisabeth.
Wann wird mein Haupt sich ruhig schlafen legen?

Mortimer.
Der nächste Neumond ende deine Furcht.

Elisabeth.
—Gehabt Euch wohl, Sir! Lasst es Euch nicht leid thun,
Dass meine Dankbarkeit den Flor der Nacht
Entlehnen muss—Das Schweigen ist der Gott
Der Glücklichen—Die engsten Bande sind's,
Die zärtesten, die das Geheimniss stiftet!

(*b*) Parse, fully explaining the syntax—*reuet*, *Morgens*, *heute*, *engsten*, *sind's*.

(*c*) Give English words connected with—*Dach*, *kaufen*, *keck*, *Vogel*, *Pracht*.

6. Translate into English:—

Da ich nichts besseres zu thun wusste, so lief ich immer gerade aus; was sollte ich auch anderes thun? Durch und durch nass war ich ja doch einmal, was kam es nun auf etwas mehr oder weniger an? Plötzlich sah ich beim Leuchten eines Blitzes dicht vor mir ein Gebäude, das ganz das Aussehen eines Bauernhofes hatte, ich eilte nach dem Eingange und stand nun glücklich unter Dach. Das Wasser floss in Strömen von mir herab, auch fing ich jetzt an, entsetzlich zu frieren, doch war dies mehr innerlich wie äusserlich. Ach, dachte ich, am Ende hast du dir ein Fieber zugezogen und wirst krank!

7. Translate into German:—

We were both very young; for my part I had not yet completed my eighteenth year and Hans was perhaps about two years older. We were discussing our journey when a messenger entered the room and handed me a letter from Cologne. I looked at Hans and said, "Whom can it be from?" Hans, who was as much astonished as I was, said carelessly, "Open and read, then you will find out."

ANCIENT HISTORY.

A. Greek History.

1. Give an outline Map showing the relative positions of Corcyra, Corinth, Sparta, and Athens.

2. Give the war policy recommended by Pericles.

3. Give the date of the peace of Nicias, and an account of the result of the war.

4. What is meant by saying that Athens was a democracy, but that there were many willing to see an oligarchy established? Illustrate by reference to the "four hundred."

5. Give an account, with date, of the "Surrender of Athens."

6. Give an account, with dates, of Socrates, Tissaphernes, Critias, Xenophon, Epaminondas.

7. Where, and for what noted are, Eubœa, Cunaxa, Mantinea?

8. Sketch (with dates) the career of Philip of Macedon.

B. Roman History.

1. Give an account of the Roman rule in 133 B.C., and indicate any changes in the national character that may be attributed to this extension of Roman sway.

2. What was the nature of the antagonism between Caius Gracchus and the Roman senate? How did it terminate?

3. Who was Marcus Livius Drusus? What was the social war?

4. What part did Mithridates play in the history of Rome?

5. By what means did Sulla arrive at "dictatorship"? How did he use his power?

6. Give an account (with dates) of the rise and fall of Pompey.

7. Give the position of—Aquae Sextiae, Colline gate, Carrhae, Philippi. Give the dates of the battles fought there, the opposing forces, and the results.

8. Explain the following—"Second triumvirate," "Father of his country," "Military colonies," "Gladiatorial war."

MODERN HISTORY.

C. Scottish History.

1. When did James I. begin to reign really? What had happened between the death of Robert III. and this date? What reforms did James I. try to effect?

2. What control was exerted by the throne over the Highland chiefs? Describe the efforts made by James IV. to put the Highlands in a more satisfactory condition.

3. Give the leading facts of the last four years of the reign of James IV.

4. Give, with date, an account of Hertford's devastations of Scotland. Give the motives.

5. Who was Darnley? Who were "the Lords of the Congregation"? How did the latter receive the proclamation of Darnley as King?

6. When was James VI. crowned King of Scotland? Sketch (giving dates) the history of Regent Murray.

7. Give an account of the Scottish Authors belonging to the period studied.

8. Give accounts of Andrew Melville, George Buchanan, Cardinal Beaton and Captain Barton.

D. English History.

1. Give, with dates, an account of the foreign commerce of Britain in the reign of James I.

2. On what accusations was Charles I. condemned? Examine the grounds for these accusations.

3. Give the date and meaning of the "Solemn League and Covenant."

4. Describe Cromwell's foreign policy.

5. Give the points of the Act of Uniformity, the date of its passing and a list of the Non-Conformist bodies then existing.

6. Give an account of Settlement in Ireland during the period studied.

7. Sketch the leading events of the five years prior to the Accession of William III.

8. Give a short sketch of the leading Authors belonging to the period studied.

II.—PRELIMINARY EXAMINATION IN ARTS AND FOR OPEN BURSARIES.

October, 1890.

LATIN.

Translate into English :—

(*a*) Passage from a Latin poet (16 lines).
(*b*) Passage from a Latin prose writer (21 lines).

Translate into Latin Prose :—

[*Candidates may substitute any Latin names they please for the proper names.*]

All thought of prosecuting the war was at an end; it was plain that the chiefs of the expedition would have sufficient difficulty in escaping with their lives. They fled in different directions. Hume reached the Continent in safety. Argyle hoped to find a secure asylum under the roof of one of his old servants, who lived near Kilpatrick. But this hope was disappointed, and he was forced to cross the Clyde. Assuming the dress of a peasant, he journeyed, with a single trusted friend, as far as Inchinnan. At this point two streams, the Black and the White Cart, mingle before they join the Clyde. The ford was guarded by a party of soldiers. Some questions were asked: Argyle's companion tried to draw suspicion on himself to save his friend. But the questioners, not believing that Argyle was but a simple peasant, laid hands upon him. He broke loose, and sprang into the water. He was instantly chased. After standing at bay for a short time against five assailants, he was struck down with a broad-sword, and secured.

LATIN GRAMMAR.

1. Give the gender, genitive plural and meaning of the following nouns:—*caro*, *domus*, *virtus*, *iter*, *ordo*, *panis*, *lapis*, *pons*, *vulgus*, *imber*.

2. Compare—*vetus*, *longinquus*, *dives*, *sacer*, *diu*, *male*.

3. Conjugate the verbs—*rideo*, *tundo*, *seco*, *gaudeo*, *pingo*, *tego*, *scindo*, *sentio*, *lacesso*, *cado*.

4. Explain the derivation of the following verbs, and give the third person plural of the future indicative and present subjunctive of each:—*malo*, *nolo*, *possum*, *nequeo*, *veneo*.

5. Give the English of the following words and phrases :—*quisque*, *quisquis*, *quisquam* ; *vicies sestertium* ; *A.D. vii Kal. Quinct.* ; *cui bono?*

6. Explain the construction of the words in Italics in the following passages :—

(*a*) Dedit crinem *diffundere* ventis.
(*b*) Quid *mihi* Celsus agit?
(*c*) *Os humeros*que deo similis.
(*d*) Nihil est quod *scribam*.

7. Translate the following sentences into Latin :—

(*a*) I hope to see your brother before he sets out for Athens.
(*b*) But for my help, the army would have been defeated.
(*c*) At Carthage bread is dear, at Canusium hard.
(*d*) They asked him whether he was well or not.

GREEK.

Translate into English :—

(*a*) Passage from a Greek Prose writer (16 lines).
(*b*) Passage from a Greek Poet (11 lines).
(*c*) Passage from a Greek Poet (10 lines).

1. Parse fully, giving, in each case, the *pres. indic. act.*—*δεήσει*, *εἴσεται*, *δύνῃ*, *ποιῆσαι*, *ἔλθῃς*, *ἴσασι*, *εὑρήσεις*, *τύχοις*, *ὥρμημαι*, *δεδιώς*, *προσβαλεῖν*, *γενέσθαι*.

2. Write down the *genitive singular* and *dative plural* of the following (if an *adjective*, give all genders) :—*βασιλεύς*, *πολίτης*, *ἀνήρ*, *τεῖχος*, *ναῦς*, *γυνή*, *χαρίεις*, *ἡδύς*, *ἀμείνων*, *ὅστις*, *εὐγενής*, *πολύς*.

3. Compare—*ταχύς*, *μέγας*, *εὐδαίμων*, *ἀληθής*, *δίκαιος*, *ἐγγύς*.

4. Express the following sentences in *Oratio Obliqua* after *ἔλεξε* (1) with *ὅτι* ; (2) in *Accus.* and *Infin.* construction.

(*a*) *Ἐὰν ταῦτα ποιήσω, κακὸς ὢν φανοῦμαι.*
(*b*) *Ἐρωτῶ τί ποιεῖ.*

5. Translate into Greek :—

(*a*) We remained three days at Athens.
(*b*) The generals praised every one they saw doing this.
(*c*) Do not go away from here until we have come.
(*d*) He said that if he had served the gods as well as he had served the king, they would not have forsaken him in his old age.

MATHEMATICS.

FIRST PAPER.

1. If two angles of a triangle be equal, the sides opposite to them shall also be equal.

P is any point in the base AC of an isosceles triangle ABC and PQ, PR are drawn parallel to the sides BC, AB respectively, meeting them in Q and R. Show that the perimeter of the parallelogram $PQBR$ is the same for all positions of P in AC.

2. Show that a parallelogram has its opposite sides and angles equal.

AB, AC are the equal sides of an isosceles triangle ABC; in AC a point D is taken, and in AB produced a point E such that CD is equal to BE: show that DE is bisected by BC and is greater than BC.

3. Equal triangles on the same side of the same base are between the same parallels.

E is a point on the side BC and F a point on the side CD of a rectangle $ABCD$: show that the rectangle $ABCD$ is equal to twice the area of the triangle AEF together with the rectangle contained by BE and DF.

4. Construct (i.) a triangle, (ii.) a square, that shall be equal to a given rectilineal figure.

5. The sum of the squares on two sides of a triangle is double the sum of the squares on half the base and on the straight line joining the vertex to the middle point of the base.

Through a given point A draw three straight lines AB, AC, AD such that these lines shall be of given length, shall have their extremities in a straight line and shall have BC equal to CD.

6. The angles in the same segment of a circle are equal to one another.

A, B, C are three points on the circumference of a circle and the bisectors of the angles BAC, CBA, ACB meet the circle again in D, E, F respectively: show that EF is perpendicular to AD.

7. If from a point without a circle a secant and a tangent be drawn to the circle, the rectangle contained by the secant and the part of it without the circle shall be equal to the square on the tangent.

Two circles intersect in O, and through O a line ORS is drawn cutting the circles again in R and S. SO is produced to P so that the rectangle $OP \cdot RS$ is constant. Show that the locus of P is a straight line parallel to the common chord of the circles.

8. Inscribe a regular pentagon in a given circle.

Express the length of the side of the inscribed pentagon in terms of the radius of the circle.

9. If a straight line be drawn parallel to one side of a triangle it shall cut the other sides or those sides produced proportionally.

AB, AC are tangents to a circle; CE is drawn perpendicular to BD the diameter through B. Show that AD bisects CE.

10. Define "duplicate ratio." Prove that similar triangles are to each other in the duplicate ratio, (i.) of homologous sides, (ii.) of the radii of their circumscribed circles.

11. If R, r denote the radii of the circumscribed and inscribed circles of a regular polygon, and S, s the corresponding radii of another regular polygon of the same area and twice the number of sides, prove $S^2 = Rr$ and $2s^2 = r(R+r)$.

SECOND PAPER.

1. What is meant by the "Highest Common Factor" of two algebraical expressions? Find the H.C.F. of the two expressions

$$6x^4 - 9x^3 - 8x^2 + 14x - 3 \text{ and } 6x^4 - 17x^3 + 12x^2 - 2x + 3.$$

2. Show that two factors that are rational and integral with respect to x can always be found for the expression

$$ax^2 + bx + c.$$

Find the factors of :—

(i.) $22x^2 - 117x - 22$; (ii.) $x^2 - 7x + 1$.

3. Define a "fraction" and from your definition prove that a fraction is not altered in value by multiplying numerator and denominator by the same expression.

Simplify the following expressions :—

$$\text{(i.) } 1 - \frac{1}{1+x} - \frac{x}{1-x^2} + \frac{x^2}{1+x^3};$$

$$\text{(ii.) } \frac{x^3}{(x-y)(x-2)} + \frac{y^3}{(y-x)(y-2)} + \frac{8}{(2-x)(2-y)}.$$

4. Assuming that $a^m \times a^n = a^{m+n}$ for all values of m and n, find the meaning of $a^{\frac{3}{2}}$, a^{-2}, a^0.

Divide $2x^3 - \sqrt[3]{32} . x + \sqrt{2}$ by $\sqrt{2} . x - \sqrt[3]{2}$.

5. Solve the following equations :—

$$\text{(i.) } \frac{1}{2x-3} - \frac{1}{2x+5} = \frac{8}{4x^2-15};$$

$$\text{(ii.) } \frac{1}{x^2-3x+1} - \frac{1}{x^2+3x-1} = \frac{18}{3x^3+x^2+9};$$

$$\text{(iii.) } x^2 - 3xy = x + 1,$$
$$3xy - 9y^2 = 3y - 1.$$

6. If y vary as the sum of three quantities of which the first is constant, the second varies as x, and the third as x^2 : and if $(a, 0)$, $(2a, a)$, $(3a, 4a)$ be three pairs of simultaneous values of x and y, then when $x = na$, $y = (n-1)^2 a$.

7. Sum the series :—

$$\text{(i.) } 1 - \frac{1}{\sqrt[3]{2}} + \frac{1}{\sqrt[3]{4}} - \frac{1}{2} + \text{ etc. to 9 terms.}$$

$$\text{(ii.) } 1 + 16 + 49 + \ldots + (3n-2)^2 \text{ to 12 terms.}$$

8. Trace the changes in the value of $1 - \sin x$ as x varies from 0° to 360°.

Given that A lies between 90° and 180° and that $\cos A = -{\cdot}45$, find the other trigonometric ratios.

9. Assuming the formulæ for $\sin(A+B)$ and $\cos(A+B)$ in terms of the sines and cosines of A and B, find the value of $\cos 2A$, $\cos 3A$, $\cos 4A$ in terms of $\cos A$.

Solve the equations :—

(i.) $\sin x + \cos x = \cot x - \tan x$; (ii.) $2\sin^2 2x \cdot \cos 2x = \sin^2 3x$.

10. In a triangle ABC, prove

$$a \sin B - b \sin A = 0, \quad a \cos B + b \cos A = C,$$

and eliminate B from these equations.

A man who is walking on a level plain towards a tower observes at a certain point that the elevation of the top of the tower is 10°, and after going 50 yards nearer to the tower that the elevation is 15°. Find the height of the tower in yards, given

$$\text{Log}\sin 15^\circ = 9{\cdot}4129962, \qquad \log 25{\cdot}783 = 1{\cdot}4113334,$$
$$\text{Log}\cos 5^\circ = 9{\cdot}9983442, \qquad \log 25{\cdot}784 = 1{\cdot}4113503.$$

11. A quadrilateral is inscribed in a circle : find an expression (i.) for its area, (ii.) for the radius of the circle, in terms of the sides of the quadrilateral.

ENGLISH.

1. Distinguish *epic*, *lyric*, and *dramatic* poetry ; *tragedy*, *comedy*, and *melodrama*. Name *two* examples of each.

2. State briefly what you know of (1) the author, (2) the subject of any *five* of these works :—*L'Allegro*, *Idylls of the King*, *Westward Ho!* *Rasselas*, *The Deserted Village*, *Robinson Crusoe*, *Pendennis*, *The Prisoner of Chillon*, *Adam Bede*.

3. Explain these terms :—Case, antecedent, participle ; phrase, completion of the predicate, adverbial clause ; metaphor, antithesis, allegory ; rhythm, alliteration, caesura.

4. Describe any *five* of the following characters :—Brutus, Rosalind, Samson Agonistes, Harry Esmond, Paul Dombey, Enid, Diana Vernon, Romola.

5. Give the derivation of :—Knight, abscond, harmony, jubilee, muslin, afflict, orison, mystery, complaint, chalice, pyramid, repose.

6. Write an essay on :—

(1) Lyric Poetry,
or (2) Mr. Stanley,
or (3) A Winter Holiday.

III.—FOR THE DEGREE OF M.A.

I.—FOR ORDINARY DEGREE.

A.—DEPARTMENT OF CLASSICAL LITERATURE.

LATIN TRANSLATION.

1. Translate :—
   Virg. *Æn.* VII., 10—26. Proxuma Circaeae raduntur . . . fulgebat lutea bigis.
2. Translate :—
   (*a*) Hor. *Odes* II., 13. 1—12. Ille et nefasto . . . domini caput immerentis.
   (*b*) Hor. *Odes* III., 29. 29—41. Prudens futuri temporis . . . irritat amnes.
   (*c*) Hor. *Sat.* I., 3. 24—34. Stultus et improbus . . . hoc sub corpore.
3. Translate :—
   Tac. *Agric.* 3. Natura tamen infirmitatis . . . praesentium bonorum composuisse.
4. Explain the grammatical constructions in the following passages, and indicate the context of each :—

(*a*) Cui tristia bella
Iraeque insidiaeque et crimina noxia cordi.

(*b*) Horrida praecipue cui gens, adsuetaque multo
Venatu nemorum.

(*c*) Tres prohibet supra
Rixarum metuens tangere Gratia.

(*d*) Caesar, qui cogere posset,
Si peteret per amicitiam patris atque suam, non
Quidquam proficeret.

(*e*) Huncine solem
Tam nigrum surrexe mihi !

(*f*) Id filiae quoque uxorique praeceperim, sic patris, sic mariti memoriam venerari, ut omnia facta dictaque ejus secum revolvant.

LATIN PROSE.

Flaminius, fearing perhaps that at the last moment his hopes would be disappointed, and eager to attain the glory which he expected to acquire by vanquishing Hannibal, had quitted Rome without waiting for the performance of the customary rites. But whilst he waited at Arretium and his colleague at Ariminum to defend the passes of the Apennines, Hannibal had led his army across the mountains and forced his way through impassable fens and floods. Had Flaminius been wise, he would have waited till Servilius joined him : for though his single army might have been able to defend the mountain passes, it was folly to encounter Hannibal in the open field; and so his officers warned their general. But he was headstrong and rash, eager to fight, and confident of victory. Hannibal understood all this, and marched on southwards through Etruria, laying waste the country. And now Flaminius could no longer forbear. He left Arretium, and followed the Carthaginian army, as their general had intended, under the impression that Hannibal was loath to risk a battle. His enemy led him on until he brought him to a narrow valley by the lake of Thrasymene.

GENERAL PAPER.

A. UNPREPARED TRANSLATION.

(PICTURE OF CHAOS.)

Ante mare et terras et, quod tegit omnia, coelum
Unus erat toto naturae vultus in orbe,
Quem dixere chaos; rudis indigestaque moles;
Nec quidquam, nisi pondus iners; congestaque eodem
Non bene iunctarum discordia semina rerum.
Nullus adhuc mundo praebebat lumina Titan;
Nec nova crescendo reparabat cornua Phoebe;
Nec circumfuso pendebat in aëre tellus
Ponderibus librata suis: nec brachia longo
Margine terrarum porrexerat Amphitrite.
Quaque fuit tellus, illic et pontus et aër.
Sic erat instabilis tellus, innabilis unda,
Lucis egens aër: nulli sua forma manebat;
Obstabatque aliis aliud, quia corpore in uno
Frigida pugnabant calidis, humentia siccis,
Mollia cum duris, sine pondere habentia pondus.

B. GRAMMAR.

1. State with examples the ordinary use of *quominus* and *quin* in final and consecutive clauses: and give the various meanings of the word *quin*, adding an example of each.

2. Give the genitives, singular and plural, and also, where necessary, the gender of—(*a*) *incus*, (*b*) *clades*, (*c*) *lătus*, (*d*) *domus*, (*e*) *praeceps;* the perfect indicative active (first singular) and the supine of—(*a*) *indulgeo*, (*b*) *deligo*, (*c*) *diligo*, (*d*) *agnosco:* parse—(*a*) *erepsemus*, (*b*) *mālis*, (*c*) *poti;* and compare—(*a*) *gracilis*, (*b*) *magnopere*, and (*c*) *nequam*.

C. ANTIQUITIES.

Explain the following:—(*a*) *praetor peregrinus*, (*b*) *rogatio*, (*c*) *centuria praerogativa*, (*d*) *princeps Senatus*, (*e*) *patria potestas*, (*f*) *cognomen*.

D. HISTORY (133-31 B.C.).

State briefly what you know about *two* of the following subjects, with particulars of dates, persons, &c.:—(*a*) The Revolution of Saturninus, (*b*) The Social War, (*c*) The Legislation of Sulla, (*d*) The Battle of Pharsalia, (*e*) The Second Triumvirate.

GREEK TRANSLATION.

Translate :—

1. Herod. IX. 6, and IX. 58.
2. *Either* (*a*) *Philoct.*, 162—168.
   (*b*) *Ibid.*, 604—618.
   or (*a*) *Trachiniae*, 132—140.
   (*b*) *Ibid.*, 756—769.
   or (*a*) *Electra*, 734—748.
   (*b*) *Ibid.*, 1384—1390.
3. Plato, *Crito*, p. 54*b*—54*c*.

GENERAL PAPER.

A. UNPREPARED TRANSLATION.

(UNION IS STRENGTH.)

'Εν τοῖς παλαιοῖς ἦν ἀνὴρ ὑπεργήρως,
εἶχεν δὲ πολλοὺς παῖδας· οἷς ἐπισκήπτων
(ἔμελλε γὰρ δὴ τὸν βίον τελευτήσειν)
ἐκέλευε λεπτῶν, εἴ τις ἔστι που, ῥάβδων
δέσμην ἐνεγκεῖν. ἧκέ τις φέρων ταύτην.
'Πειρᾶσθε δή μοι, τέκνα, σὺν βίᾳ πάσῃ
ῥάβδους κατᾶξαι δεδεμένας σὺν ἀλλήλαις,"
οἱ δ' οὐ γὰρ ἠδύναντο, 'Κατὰ μίαν τοίνυν
πειρᾶσθ'.' ἑκάστης δ' εὐχερῶς καταγείσης,
''Ω παῖδες, οὕτως,' εἶπεν, 'ἂν μὲν ἀλλήλοις
ὁμοφρονῆτε πάντες, οὐδ' ἂν εἷς ὑμᾶς
βλάψαι δύναιτο, κἂν μέγιστον ἰσχύῃ·
ἢν δ' ἄλλος ἄλλου χωρὶς ἦτε τὴν γνώμην,
πείσεσθ' ἕκαστος ταὐτὰ τῇ μιᾷ ῥάβδῳ.'

B. GRAMMAR.

1. Write out the imperfect tense (active, indicative) of—*ῥέω*; compare *σώφρων* and *ῥᾴδιος*; give the accusative and genitive singular of—*αἰδώς*, *ναῦς*, and *ἱερεύς*; and the first person singular of four of the principal tenses (indicative mood) of—(*a*) *αἱρέω*, (*b*) *ὄμνυμι* and (*c*) *σώζω*; and parse (*a*) *εἶ*, (*b*) *ἴσθι*, (*c*) *ἐνδεδεμένοι*, (*d*) *ἀπολεόμεθα*, and (*e*) *χρεών*.

2. Mention, with examples, the chief cases of *attraction* that occur in Greek.

3. Turn into Greek :—
   (*a*) O child, mayst thou be happier than thy sire.
   (*b*) If we had known this, we would have aided you.
   (*c*) Without knowing it, he had fallen among the enemy.

C. LITERATURE, ANTIQUITIES, AND HISTORY.

Candidates are requested to discuss concisely one subject (*a*) *or* (*b*) *in each of the following sections :—*

Section I. (*a*) The life and writings of Sophocles.
(*b*) The Homeric Question.

Section II. { (*a*) The Athenian Boulê.
(*b*) The Spartan Ephors.

Section III. { (*a*) The causes that led to the formation of the Delian Confederacy.
(*b*) The Civil Feuds at Corcyra.

Section IV. { (*a*) The Siege of Syracuse by the Athenians.
(*b*) The Battle of Aegospotami.

B.—DEPARTMENT OF MENTAL PHILOSOPHY.

LOGIC.

(*Candidates are required to answer* TEN *questions,* FIVE *of which must be selected from Section* A *and* FIVE *from Section* B *of this Paper.*)

A.

1. Wherein, according to Locke, does Knowledge consist? Examine the doctrine, and compare it with the view of Knowledge as "determination by means of categories."

2. What is Hume's view of Causation? Examine and criticise it.

3. *Faculty*, *Act*, *Capacity*, *State*. Explain and illustrate these terms. Point out the difference between the relation of Faculty and Act, and that of Physical Causation.

4. Classify the Senses. Point out the spheres of each. Distinguish precisely Sensation and Perception. Show generally how we build up our knowledge of the extra-organic world.

5. Notice various views as to the nature of freedom in Will. Examine them. Show precisely wherein it consists.

6. Point out the various meanings of the terms *Object* and *Objective*. Notice especially their use by Kant. "Sensations are constituted into objects by means of time, space, and category." Examine and criticise this statement.

7. Point out precisely the position in regard to the principles of Knowledge of Reid and Hamilton. Notice current misrepresentations of their views. State and discuss the law of Difference and Plurality in Knowledge. Show its bearing on Monistic theories of Knowledge and Being.

B.

1. Logically distinguish between Words and Terms. Classify the following Terms, stating, in each case, the reasons for the classification adopted:—Blade, a blade of grass, Diogenes, a Diogenes, evil, half, gas, church.

2. "The logical concept is representative, yet it is partial and inadequate." Discuss this carefully, pointing out, in particular, how far the concept is abstract and how far concrete. Give examples.

3. How many kinds of quantity are there in Logic? State the logical signification of the following words in relation to the doctrine of quantity:—All, every, some, none, alone, except.

4. Carefully explain the meaning of Reduction as applied to Syllogisms. Reduce the following, pointing out their Moods and Figures:—

(*a*) Some police magistrates are good men;
No good men are unmerciful to the poor;
Therefore, Some who are not unmerciful to the poor are police magistrates.

(*b*) Every animal feels;
Some living thing does not feel;
Therefore, Some living thing is not animal.

5. Distinguish between Syllogism, Perfect Induction, Induction, and Reasoning from Example as methods of inference. What is the precise logical value of the conclusions arrived at by each?

6. What did Bacon mean by Prerogative Instances, and how did he find discussion of them helpful in inductive reasoning? Is there any parallel procedure in Mill's Canons?

7. Define a Fallacy, a Sophism, a Paralogism. Give an example of each.

MORAL PHILOSOPHY.

A.—*For Students of Session* 1888-89, 1890-91, *or any Session before* 1885-86.

(*Candidates are required to answer* NINE *questions.*)

1. How does Hume treat the question of Freedom? Criticise his view.

2. What are the main elements in the idea of development as conceived by Mr. Spencer? Criticise his view.

3. How would the Nominalist and the Realist respectively explain the nature of Society? Is there any other explanation possible?

4. How does Comte conceive the relation of Religion and Morality? Criticise his view.

5. "The Age of Enlightenment." What is meant by this expression? What are the defects of the Enlightenment in question?

6. Examine the possibility of a Hedonistic Calculus such as that proposed by Bentham.

7. Give and criticise Aristotle's idea of Virtue.

8. What is Pantheism, and what is its influence on morality?

9. Give a short sketch of the development of Roman Law.

10. What was the nature of Jacobi's criticism of Kant's Moral Theory? Was it a just criticism?

11. What is meant by the "Social Contract"? What is Plato's view of it?

12. Examine Butler's view of the relation of the Law of Pleasure to the other desires.

13. What are the difficulties in the application of the idea of Design to the Animal Kingdom?

B.—*For Students of Sessions* 1889-90 *or* 1885-86.

(*Candidates are required to answer* NINE *questions.*)

1. "Every man is a Platonist or an Aristotelian." In what sense is this true?

2. Compare the views of Aristotle with those of Socrates on the relation of Virtue to Knowledge.

3. Explain and examine Aristotle's criticism of Plato's idea of Good.

4. "The aim of ethics is not speculative but practical." Examine this statement and Aristotle's reasons for making it.

5. Compare Aristotle's view of Magnanimity with the mediæval ideal as represented by Thomas à Kempis.

6. What is Aristotle's view of the State and its relation to the moral life of man?

7. Examine Aristotle's view of Pleasure, and the ethical consequences he draws from it.

8. What is Socialism? Explain and examine the views of St. Simon on this subject.

9. Compare the views of Aristotle and of the Stoics in relation to (1) the nature of Virtue, and (2) the elements of Happiness.

10. What did the Greeks mean by the word usually translated 'shame'? What is the importance of the quality so named in Greek Ethics?

11. Discuss the Aristotelian view of Freedom. What other elements are there in Kant's conception of it?

12. How far have we the right to assume that every man is conscious of moral distinctions? Examine Aristotle's view of this subject.

C.—*For Students of Session* 1887-8.

(*Candidates are required to answer* NINE *questions.*)

1. Compare and contrast the philosophy of Socrates with that of the earlier Greek philosophers.

2. How does Plato deal with the Sophists? Is there any reason for saying that his view of them was unjust?

3. Compare the views of Plato with those of Rousseau in regard to the Social Contract theory.

4. Examine Plato's view of Education.

5. What is the Ideal Theory of Plato, and what are Aristotle's main objections to it? Examine the justice of these objections.

6. Compare the Platonic view of Virtue with that of the Stoics.

7. What are the main views as to the nature and objects of Penal Justice? Examine their validity.

8. Examine Plato's views as to the extent of the interference of the State with the lives of the citizens, and state your own views on the subject.

9. What is Plato's view of the relation between Religion and Philosophy? Examine it.

10. How far is Aristotle agreed with Plato as regards (1) the nature of virtue; (2) the rights of the individual?

11. What is Plato's view of the relation of Goodness to Happiness? Compare it with that of Bentham.

12. Discuss Plato's view of the relation of the sexes.

D.—*For Students of Session* 1886-7.

(*Candidates are required to answer* NINE *questions.*)

1. How does Kant conceive of the relations of Dogmatism and Scepticism? Criticise his view.

2. What does Kant mean by the Transcendental Deduction of the Categories?

3. What is the relation of Kant's philosophy to that of Hume?

4. Discuss Kant's second *formula* for the Moral Law. How far is it secured against the objection taken to his first formula?

5. What attitude does Kant take up towards Hedonism? Is his view of it just?

6. What is Kant's view of the relation of the good will to the moral end or *Summum Bonum?*

7. "He who cannot act except under the idea of Freedom is subjected to all the obligations of a Being who is free." Explain this. How does Kant reconcile man's moral freedom with the necessity of Nature?

8. What is Kant's view of the "Social Contract"? Compare his end with that of Rousseau.

9. Give Kant's classification of the Virtues, and criticise it.

10. What is Kant's view of the nature of the moral sentiment?

11. Examine Kant's criticism of the Aristotelian doctrine that Virtue lies in the 'mean.'

12. Examine Kant's view of Religion.

ENGLISH LANGUAGE AND LITERATURE.

For Students of Session 1889-90, *or any preceding Session.*

[*Answer* NINE *questions, taking* ONE *from A*, THREE *from B*, ONE *from C*, ONE *from D ; the remaining* THREE *may be taken from any part of the paper.* ONE *of the questions numbered* 17, 19, 20, *must be attempted.*]

A. COMPOSITION AND PHILOLOGY.

1. Criticise and correct the following sentences :—

(*a*) Standing close to the choir, the separate voices were impossible to distinguish; each blended into one another with such perfect harmony.

(*b*) Baldness or stiffness of style are equally objectionable as pomposity or wateriness.

(*c*) He intended to have been here sooner than me.

(*d*) No doubt the reason why Socrates was condemned was because of his unpopularity.

(*e*) If we consider the question in this point of view, we will never arrive at any other conclusion but one.

2. Turn the simile in (*a*) into a metaphor, and the metaphor in (*b*) into a simile :—

(*a*) But pleasures are like poppies spread ;
You seize the flower, the bloom is shed.
(*b*) I warmed both hands before the fire of life ;
It sinks, and I am ready to depart.

What effects are produced by the appropriate use of simile and metaphor?

3. What are the principal exceptions to the rule which requires "purity" in the use of language?

4. State Grimm's Law, and explain by illustrations of it the relation of English to the Classical Languages and to Modern High German.

5. Describe some of the direct effects of the Norman Conquest on the English Language. Has English gained by becoming a mixed language?

6. Mention some of the chief differences between the language of Chaucer and the language of Dunbar. How did these differences arise?

B. History of Literature from 1350.

7. Give the approximate dates, and the names of the authors, of the following works, and state in a few words to what species of literature they severally belong :—*Sejanus*, *Tristram Shandy*, *The House of Fame*, *The Wealth of Nations*, *Gorboduc*, *Esmond*, *She Stoops to Conquer*, *Cain*, *The King's Quhair*, *The Complete Angler*, *Leviathan*, *The Origin of Species*, *Hyperion*, *Novum Organum*, *The Hind and the Panther*.

8. Consider any two of the following writers as representatives of their times :—Chaucer, Lyndsay, Spenser, Herbert, Addison, Burns, Ruskin.

9. How does the influence of classical literature appear in More, Bacon, Pope, and Shelley?

10. With what justice is Milton described as the poet of Puritanism? Compare him with Bunyan in this respect.

11. Describe the change that came over English Literature in the reign of Charles II., and illustrate it by special reference to one writer.

12. What seem to you the most characteristic differences between the poets of Byron's time and their successors?

13. Compare any two English elegies, *or* any two famous historical works in English.

14. What species of literature were most flourishing during each of the following periods,—1350 to 1400, 1580 to 1620, 1740 to 1790?

C. Macbeth.

15. Trace, by way of contrast, the development of the characters of Macbeth and Lady Macbeth after the murder of Duncan.

16. What is the influence of the Witches on the action of the Tragedy?

17. Explain with reference to the context : 'the fatal bellman'; 'the insane root'; 'the travelling lamp'; 'the great doom's image'; 'function is smothered in surmise'; 'take the present horror from the time'; 'witches' mummy'; 'the baby of a girl'; 'what are these faces?'; 'the angel whom thou still hast served'; 'he has no children'; 'hell is murky.'

D. NONNE PRESTES TALE.

18. What is the general plan of the Canterbury Tales? What features or passages in the Nun's Priest's Tale seem to be specially suitable to its narrator?

19. Write in modern English and explain fully:—

(*a*) His vois was merier than the merye orgon
On messe-dayes that in the chirche gon.

(*b*) and for ye shul nat tarie,
Though in this toun is noon apotecarie,
I shal my-self to herbes techen yow.

(*c*) Lo, in the lyf of seint Kenelm, I rede,
That was Kenulphus sone, the noble king
Of Mercenrike, how Kenelm mette a thing.

(*d*) O newe Scariot, newe Genilon!

(*e*) But I ne can not bulte it to the bren,
As can the holy doctour Augustyn.

(*f*) Certes, he Iakke Straw, and his meynee.
Ne maden nevere shoutes half so shrille,
Whan that they wolden any Fleming kille.

20. (*a*) Explain:—'Catoun'; 'I dar wel leye a grote'; 'he lyth gapinge upright'; '*In principio*'; 'the month in which the world bigan'; 'undern'; 'for the nones'; 'weylaway'; 'God lat him never thee.'

(*b*) Comment on the following italicised forms:—*thilke*; they *wol hem* byte; *noot* I nat why; I pray *yow loketh* wel; *stonden*; *diden*; *y-write*; *nonne* prestes tale.

C.—DEPARTMENT OF MATHEMATICS.

MATHEMATICS.

FIRST PAPER.

1. The angles at the base of an isosceles triangle are equal to one another, and if the equal sides be produced the angles on the other side of the base are also equal.

In the side AC of a triangle ABC a point D is taken so that AD is equal to AB, and BD is joined. Prove that CBD is equal to half the difference of the base angles.

2. Prove that the difference of any two sides of a triangle is less than the third side.

3. Triangles on the same base and between the same parallels are equal to one another.

If D, E be the middle points of the sides AC and BC of an equilateral triangle, G the middle point of AE, prove that the triangle BGD is one-eighth of the whole triangle ABC.

4. Show that the square on the hypotenuse of a right-angled triangle is equal to the sum of the squares on the sides containing the right angle.

If the lines joining the vertices to the middle points of the opposite sides meet in O, prove that thrice the sum of the squares on AO, BO and CO is equal to twice the square on the hypotenuse.

5. Describe a square which shall be equal to a given rectilineal figure.

6. If two circles cut one another, their common chord is bisected at right angles by the straight line joining their centres.

7. In equal circles equal arcs subtend equal angles at the centre and also at the circumference.

8. If a straight line be drawn touching a circle, and from the point of contact another line be drawn cutting the circle, show that the angles which this line makes with the tangent are equal to the angles in the alternate segments of the circles.

AB is the common chord of two intersecting circles. From A tangents are drawn to the two circles. If these meet the circles again in P and Q, show that AB bisects the angle PBQ.

9. Show how to inscribe a regular hexagon in a given circle.

If each pair of alternate angles be joined, show that another regular hexagon is formed whose area is one third of that of the original hexagon, and whose side is two thirds of the perpendicular from the centre of the circle on the side of the original hexagon.

10. If the perpendicular be drawn from the right angle of a right-angled triangle on the hypotenuse, the triangles on each side of it are similar to the whole triangle and to one another.

11. If four straight lines be proportionals, the rectangle contained by the extremes is equal to the rectangle contained by the means, and conversely.

Deduce this from VI. 1, without assuming any subsequent proposition.

12. If from the vertical angle of a triangle a straight line be drawn perpendicular to the base, the rectangle contained by the sides is equal to the rectangle contained by the perpendicular and the diameter of the circumscribing circle.

If any hexagon be inscribed in a circle, prove that the product of the perpendiculars from any point of the circumference of the circle on the odd sides is equal to the product of the perpendiculars from the same point on the even sides.

SECOND PAPER.

1. Prove the Law of Signs for the addition and subtraction of algebraical quantities ; and simplify the expression

$$10x+7-[9x-3+\{4x-(5+6-3\overline{x})\}].$$

Find the least integral value of x which makes this expression negative.

2. Establish the identities :—

(i.) $\frac{4}{x^2-2x-3}-\frac{5}{x^2-3x-4}+\frac{1}{x^2-7x+12}=0.$

(ii.) $$\frac{1}{(b-a)(c-a)(b+c)}+\frac{1}{(c-b)(a-b)(a+c)}$$
$$+\frac{1}{(a-c)(b-c)(a+b)}=\frac{1}{(a+b)(b+c)(c+a)}.$$

3. Find the square root of the expression
$$4(x^4+4x^2y^2+y^4)-16xy(x^2+y^2)+\{4(x^2+y^2)+1\}\{8xy+1\}.$$

4. Solve the simple equations

(i.) $\frac{a}{x+a}+\frac{b}{x+b}=\frac{a+b}{x+a+b}.$

(ii.) $\frac{1}{2}(x-\frac{5}{4})-\frac{1}{5}\left(y-\frac{5x+4}{2}\right)=1\frac{3}{8}:\ 11x+3y=2.$

(iii.) $4x+3y=y-z=x-3z=5.$

5. In a distance of 500 yards the small wheel of a carriage makes 30 revolutions more than the large one. If the circumference of each be increased by $2\frac{1}{2}$ feet, the revolutions made by the large and small wheels are now in the ratio of 5 : 6 ; find the circumference of each wheel.

6. Solve the equations

(i.) $\frac{3x+4}{7}+\frac{4x+1\frac{2}{3}}{9x+6}=\frac{12x+18}{21}.$ (ii.) $2x^2-4x-\sqrt{x^2-2x-3}=16.$

(iii.) $4x^2+25y^2=61x^2y^2:\ \frac{1}{x}+\frac{1}{y}=4.$

7. If α, β be the roots of the equation $ax^2+bx+c=0$, prove that $\alpha+\beta=-\frac{b}{a}$, and $\alpha\beta=\frac{c}{a}$.

Prove also that
$$\frac{1}{\alpha^3}+\frac{1}{\beta^3}-3\left(\frac{1}{\alpha\beta^2}+\frac{1}{\alpha^2\beta}\right)=\frac{b(6ac-b^2)}{c^3}.$$

8. If $a:b::c:d$, prove that
$$(a+b+c+d)(4a+2b+2c+d)=(2a+2b+c+d)(2a+2c+b+d).$$

9. Sum the series

(i.) $4,\ 3\frac{5}{13},\ 2\frac{10}{13},\ldots\ldots$ to 14 terms.

(ii.) $\frac{\sqrt{2}+1}{\sqrt{2}-1},\ 1,\ 3-2\sqrt{2},\ldots\ldots$ to infinity.

(iii.) $2\frac{5}{11},\ -1\frac{7}{11},\ 1\frac{1}{11},\ldots\ldots$ to 5 terms and to infinity.

10. Find an expression for all angles which have the same sine as a given angle.

Solve the equation $\sin 4x+\cos 3x=\cos x.$

11. Express $\sin 3\theta$, $\cos 3\theta$ in terms of $\sin\theta$, $\cos\theta$.

Prove that $\sin 3\theta\cos^3\theta+\cos 3\theta\sin^3\theta=\frac{3}{4}\sin 4\theta.$

12. Prove the following relations between the sides and angles of a triangle,

(i.) $a = b \cos c + c \cos B$; (ii.) $bc \sin A = 2\sqrt{s(s-a)(s-b)(s-c)}$;
where s is the semi-perimeter of the triangle.

13. Solve completely the triangle in which

$$a = 17 : b = 25 : C = 57^\circ\, 11'.$$

NATURAL PHILOSOPHY.

FIRST PAPER.

1. State Newton's Second Law of Motion and explain how we can deduce from it the Parallelogram of Forces.

A man is rolling a barrel up a plank inclined to the horizon. Indicate the forces which act on the barrel and state how they change as the inclination of the plank is altered.

2. Prove that the resultant of two forces P and $2P$, inclined at an angle of 60° to one another, makes with the resultant of other two P and P acting in the same directions an angle whose tangent is $\frac{1}{3\sqrt{3}}$.

3. If three forces in one plane act on a body and keep it at rest. show that they are parallel or meet in a point ; and state the relations between the forces in the two cases.

4. If the Centre of Gravity of a body and also that of part of the body be known, show how to find the Centre of Gravity of the other part.

From an isosceles triangular lamina each of whose equal sides is to the base as 5 : 8, the part enclosed by the inscribed circle is cut out. Find the Centre of Gravity of the remainder.

5. Explain the meaning of the terms 'Limiting Friction,' 'Angle of Friction.'

A ladder, whose weight is 50 lbs., rests at an inclination of 45° against a vertical wall. If the angles of friction at the ground and the wall be respectively $\tan^{-1}\frac{1}{5}$, $\tan^{-1}\frac{1}{4}$, find the least horizontal force which applied at the lower end will keep it from slipping.

6. Find the relation between the power and the weight in the system of pulleys where one string passes round all the pulleys.

What force would a man require to exert to raise a mass of 1 cwt., there being three pulleys in each block and the weight of each block with the pulleys being 9 lbs.?

7. If a particle move from rest under a uniform acceleration f, prove the relation $v^2 = 2fs$ between the velocity and space passed over at any time.

A stone is projected along a rough horizontal plane, coefficient of friction $\frac{1}{3}$, with a velocity of 10 ft. per second. After moving for 1 yard it begins to ascend a smooth plane inclined at 30° to the horizon. How far will it rise?

8. What is meant by an Impulsive Force? How is such a force measured?

A billiard ball whose weight is 5 oz. is hit so as to move off with a velocity of 16 inches per second. If the time during which the blow lasts be $\frac{1}{100}$th of a second, find the average value of the force during impact.

9. What is the relation between Work and Potential Energy; and between Work and Activity? Explain the units in which Work and Activity are measured.

Find the Horse Power of an engine which will in 9 hours empty a vertical shaft of water, whose section is 9 feet square and whose depth is 400 feet,—the mass of a cubic foot of water being $62\frac{1}{2}$ lbs.

10. Show that for a given range on a horizontal plane, there are generally two possible directions of projection.

If t_1, t_2 be the times of flight for a given range a, show that

$$2a = gt_1t_2.$$

11. Define 'amplitude,' 'period,' 'phase' of a simple harmonic vibration; and find the velocity at any instant of a particle moving simple harmonically.

If the amplitude of a S. H. vibration be 4 cm. and the period 2 seconds, find the velocity of the particle when it is 2 cm. from the mean position and moving towards it, and the time to the mean position.

12. Prove that the time of oscillation of a simple pendulum of length l is approximately equal to

$$2\pi\sqrt{\frac{l}{g}}.$$

A pendulum consists of a bob suspended by a steel wire, whose coefficient of expansion is 124×10^{-5}. If the pendulum beat seconds at 0° C., find the number of seconds lost per day, supposing that the temperature is constant throughout the day and equal to 25° C.

Voluntary Questions.

13. Explain how it is that in the northern hemisphere it is winter when we are nearest to the Sun.

14. Describe briefly the Transit Instrument; state the purpose for which it is used and the adjustments that are necessary.

15. What is meant by the 'Equation of Time'? To what causes is it due, and when do the parts due to those separately vanish?

16. What is meant by aberration and what is its effect on the apparent position of a star?

17. Describe any method of finding the latitude by observation, and state any advantages or disadvantages of your method.

SECOND PAPER.

1. Describe a method of causing a simple pendulum to vibrate in a cycloidal arc. Show that in such a pendulum the vibrations are isochronous. A pendulum is regulated to beat seconds at a place where

$g=32{\cdot}20$. How many vibrations are made by such a pendulum in a day at a place where $g=32{\cdot}16$?

2. Explain the method of finding the specific gravity of a body lighter than water by weighing in air and water. Investigate a formula for calculating the result from the experiments you describe.

3. State the laws of Boyle and Charles. Describe the behaviour of such a substance as carbonic acid gas under variations of temperature and pressure at temperatures a few degrees above and below 30° C. What is meant by "critical point" in this connection?

4. Describe a *practical* form of air thermometer. Define 0° C., 100° C., 27° C. Find what temperatures on the Fahrenheit scale correspond to 27° C. and $-40°$ C.

5. A copper globe 4 centimetres in diameter is hung up in the air to cool. It loses heat at the rate of $\frac{1}{4000}$ of a gramme water degree centigrade unit per square centimetre per second per degree of difference of temperatures of cooling body and surroundings. Its initial temperature is 75° C., and that of the surrounding enclosure is 15° and remains constant. Find the temperature of the globe after 20 minutes. The capacity for heat of the globe is 28·3 gramme water units.

6. Find the weight of 120 litres of dry air at 23° C. and pressure 74·2 centimetres of mercury. What would be the volume of this air at 0° C. and 76 centimetres pressure?

7. State the laws of reflection and refraction of light. What is meant by "dispersion," and on what does this phenomenon depend? What is meant by "potency of a lens"; on what factors does the potency of a lens depend? Calculate the potency of a double convex lens, the radii of its surfaces being 2 in. and 3 in.; index of refraction 1·52.

8. Describe the Nicol's prism and explain its action. Describe the vibrations which constitute (1) plane polarized light, (2) ordinary unpolarized light. Define "plane of polarization."

9. Describe and explain the phenomenon of "beats" heard when two organ pipes very nearly in tune are sounded. What phenomenon in light is analogous to this phenomenon in sound? Explain how the phenomenon in light may be produced, and mention briefly some of the luminous effects which may be produced.

10. Define electrostatic unit quantity of electricity. Two pith balls each having 20 units are hung up from the same point by silk threads 100 centimetres long. The pith balls weigh each $\frac{1}{10}$ gramme. At what distance will they keep each other by their mutual repulsion?

11. State Ohm's law. Explain on what particulars the resistance of a metallic wire depends. Explain also some method by which the resistance of a wire may be determined.

II.—FOR DEGREE OF M.A. WITH HONOURS.

(AND FOR SNELL EXHIBITION.)

LATIN TRANSLATION.

Translate :—

(*a*) Virg. *Æn.* IX., 136—145.
(*b*) Hor. *Odes.* IV., 14, 9—24.
(*c*) Hor. *Sat.* II., 7, 109—118.
(*d*) Cic. *Phil.* II., § 84, 85.
(*e*) Tac. *Annals*, II., 2.
(*f*) Lucret. II., 323—330.
(*g*) Plaut. *Aulul.* III., 2, 1—10.
(*h*) Propert. IV., 4, 3—12.
(*i*) Catull. XXVI.
(*k*) Liv. II., 28.
(*l*) Cic. *pro Sestio*, § 91, 92.

LATIN PROSE.

The Idea of a patriot king.

What in truth can be so lovely, what so venerable, as to contemplate a king, on whom the eyes of a whole people are fixed, filled with admiration and glowing with affection; a king, in the temper of whose government, like that of Nerva, things so seldom allied as empire and liberty are intimately mixed, co-exist together inseparably, and constitute one real essence? What spectacle can be presented to the eye of the mind so rare, so nearly divine, as a king possessed of absolute power, neither usurped by fraud, nor maintained by force, but the genuine effect of esteem, of confidence, and affection; the free gift of liberty, who finds her greatest security in this power, and would desire no other, if the prince on the throne could be, what his people wish him to be, immortal? Civil fury will have no place in this draught: or, if the monster is seen, he must be seen subdued, bound, chained, and deprived entirely of power to do hurt. In his place concord will appear, brooding peace and prosperity on the happy land: joy sitting in every face, content in every heart; a people unoppressed, undisturbed, unalarmed; busy to improve their private property and the public stock; fleets covering the ocean, bringing home wealth by the returns of industry, carrying assistance or terror abroad by the direction of wisdom, and asserting triumphantly the right and the honour of Great Britain, as far as waters roll, and as winds can waft them.

GREEK TRANSLATION.

Translate .—

(*a*) Hom. *Odyss.* IX., 378—394.
(*b*) Thuc. IV., 34, § 2, 3.
(*c*) Thuc. VI., 11, § 2—5.
(*d*) Eur. *Phoen.*, 657—675.
(*e*) Eur. *Iph. Aul.*, 440—450.
(*f*) Pind. *Nem.* II., 1—15.
(*g*) Plato, *Gorg.*, p. 524*d*—525*a*.
(*h*) Demosth. LIV., § 8, 9 (p. 1259).
(*i*) Theoc. *Idyll.* XIX.

GREEK PROSE.

Gladness grew in me upon the discovery of so delightful a scene. I wished for the wings of an eagle that I might fly away to those happy seats: but the Genius told me there was no passage to them except through the gates of death that I saw opening every moment upon the bridge. 'The islands,' said he, 'that lie so fresh and green before thee and with which the whole face of the Ocean appears spotted as far as thou canst see, are more in number than the sands on the sea-shore: there are myriads of islands behind those which thou here discoverest, reaching further than thine eye or even thine imagination can extend itself. These are the mansions of good men after death, who according to the degree and kinds of virtue in which they excelled, are distributed among these several islands, which abound with pleasures of different kinds and degrees, suitable to the relishes and perfections of those who are settled in them: every island is a paradise accommodated to its respective inhabitants.' I gazed with inexpressible pleasure on these happy islands. 'At length,' said I, 'show me now, I beseech thee, the secrets that lie hid under those dark clouds which cover the ocean on the other side of the rock of adamant.'

GENERAL PAPER.

LATIN.

A. 1. Translate with short notes on syntax and, where necessary, on meaning:—

(*a*) Prosit nostris in montibus ortas.
(*b*) Socii magno clamore sequuntur,
Dum genitor nati parma protectus abiret.
(*c*) Non haec, O Palla, dederas promissa parenti,
Cautius ut saevo velles te credere Marti.
(*d*) Da lunae propere novae,
Da noctis mediae, da, puer, auguris
Murenae.
(*e*) Mille pedes in fronte, trecentos cippus in agrum
Hic dabat, Heredes monumentum ne sequeretur.

(*f*) Ante conditam condendamve urbem, *and* Tu nec solvendo eras, etc.

(*g*) Metuens ne reus subderetur, iuxta periculoso ficta seu vera promeret, monuit Liviam . . . eam condicionem esse imperandi, ut non aliter ratio constet quam si uni reddatur.

2. Discuss the style of Lucretius and the literary merits of his poem.

3. Give an account of the Roman comic poets.

B. Discuss *two* of the following subjects :—

(1) The credibility of early Roman history.

(2) The Roman Conquest of Greece.

(3) The significance of the career of Pompey for the later years of the Roman Republic.

(4) Cæsar's campaigns in Gaul.

(5) The government of the provinces in the earlier years of the Roman Empire.

GREEK.

A. 1. Translate with short notes on syntax and, where necessary, on meaning :—

(*a*) Μὴ μνηστεύσαντες μηδ' ἄλλοθ' ὁμιλήσαντες
ὕστατα καὶ πύματα νῦν ἐνθάδε δειπνήσειαν.

(*b*) Ὅσσον τ' ἐν νειῷ οὖρον πέλει ἡμιόνοιιν,
τόσσον ὑπεκπροθέων λαοὺς ἵκεθ', οἱ δ' ἐλίποντο.

(*c*) Ἔνθα κ' ἄυπνος ἀνὴρ δοιοὺς ἐξήρατο μισθούς,
τὸν μὲν βουκολέων, τὸν δ' ἄργυφα μῆλα νομεύων·
ἐγγὺς γὰρ νυκτός τε καὶ ἤματός εἰσι κέλευθοι.

(*d*) Ἐπίσχες, ὡς ἂν προυξερευνήσω στίβον,
μή τις πολιτῶν ἐν τρίβῳ φαντάζεται,
κἀμοὶ μὲν ἔλθῃ φαῦλος ὡς δούλῳ ψόγος,
σοὶ δ' ὡς ἀνάσσῃ.

(*e*) Ἔθρεψας Ἑλλάδι με φάος·
θανοῦσα δ' οὐκ ἀναίνομαι.

(*f*) Τοῦτο γὰρ ἀθάνατον φωνᾶεν ἕρπει,
εἴ τις εὖ εἴπῃ τι.

(*g*) Καὶ τῇ ὑστεραίᾳ μετάνοιά τις εὐθὺς ἦν αὐτοῖς καὶ ἀναλογισμὸς ὠμὸν τὸ βούλευμα καὶ μέγα ἐγνῶσθαι, πόλιν ὅλην διαφθεῖραι μᾶλλον ἢ οὐ τοὺς αἰτίους.

2. Mention the chief differences between Homeric and Attic syntax.

3. Give a brief account of Greek choral (lyric) poetry.

B. Discuss *two* of the following subjects :—

(1) The spread of Greek colonization to the West of Hellas.

(2) The changes in the Athenian Constitution after the reforms of Cleisthenes.

(3) The Athenian Maritime Empire.

(4) Demosthenes as a statesman.

LOGIC.

FIRST PAPER.

(*Answer* SEVEN *questions.*)

1. State and discuss the definitions of the province of Logic given by Hegel and Ueberweg. Give your own definition and defend its grounds at length.

2. Distinguish between a "physical whole" and a "logical whole." Elucidate the character of the latter fully with special reference to the basis of the law of Identity.

3. Show precisely why the term Quantity cannot be applied indiscriminately to a concept in Extension and Comprehension. What is the bearing of this upon objections to the doctrine of the Quantified Predicate?

4. How does Aristotle distinguish between a proposition based on likelihood and one based on sign? What is the share of such propositions in the weakness of enthymematic reasoning?

5. "Given sensation and a multiplex association as the sole matter and form of knowledge, to construct a theory of evidence which shall fitly appropriate all the old scholastic logical nomenclature, and be for us, with our present opinions, a real logic." Justify this account of Mill's problem, and advert to the main steps in his solution of it.

6. State fully the chief objections to the view that subsumption is the only valid form of reasoning.

7. "What is opposed is not one and the same." Examine very carefully this way of stating the axiom of contradiction. Contrast it with the definition given by Hegel.

8. For syllogistic purposes is there any difference between a demonstrative and a dialectical proposition?

9. Can it be shown that Mill's Canons, instead of generalising from particulars, really presuppose universal truths? If so, what kind of reasoning do they embody?

10. What is the purpose of the Inductive method according to Bacon? Point out the difficulties attaching to it particularly in Negative and Prerogative Instances.

SECOND PAPER.

(*Answer* SEVEN *questions.*)

1. What are the main conclusions of modern psycho-physics regarding the origin and nature of Space Perception? Compare them with the accounts given by the transcendentalists. Can the two theories be unified in any consistent way?

2. What is Reid's theory of Conceptions? How far does it foreshadow later psychological conclusions?

3. In what senses has the term "idea" been used by Plato, Descartes, Malebranche, Locke, Hume, Kant, and Schopenhauer? Can you trace any principle of connection throughout?

4. What are the chief objections to the Heracleitan theory of flux brought forward in the *Theatetus?* Can parallel criticisms be passed on the Dialectic Method of Hegel?

5. Elucidate accurately the two main tendencies discernible in the philosophy of Berkeley. What is their respective historical importance in reference to Hume and Kant?

6. State precisely the meanings attached to the phrase, "Intellectual Intuition" by Kant, Fichte, and Schelling respectively. Does the adoption of those doctrines prove that the idealistic systems, though professedly metaphysical, are founded on psychological considerations?

7. "Things in themselves are actions of the absolute substance." Discuss this view of Lotze's, bringing out the chief contradictions involved in it.

8. Is "an atom better than a category?"

9. Contrast the theory of knowledge which posits "a conscious subject above time, yet doing work in time," with that which posits "a conscious subject continuous in time, exercising a synthesis on an order of facts for purposes of knowledge, yet rendering the conception of succession possible." Is a "set of conscious impressions derived from an independent order of external phenomena" the only fair alternative to the former? Discuss the problem carefully.

10. Compare Hamilton's doctrine of Substance with that of Spinoza and that of Locke. Discuss fully.

MORAL PHILOSOPHY.

FIRST PAPER.

(*Answer* SEVEN *questions.*)

1. "It is in the nature of things that practice should fall short of theory." How far does Plato carry this principle? What is to be said for it?

2. What does Aristotle mean by the "Practical Syllogism"? How did he use it to explain the phenomena of will? Discuss the value of his explanation.

3. What is Spinoza's conception of Religion? Discuss it and compare it with that of Hegel.

4. In what way does Kant distinguish between principles of knowing and principles of thinking? How does this distinction affect the relation between the Schematism of the Categories and the Principles of Pure Understanding?

5. "We must agree with the Utilitarians in holding that ordinary judgments upon the moral value of actions must be founded on consideration of their effects alone." Discuss this statement of Green.

6. Examine Kant's division of Duties into "Duties to ourselves" and "Duties to others."

7. "It was the Gospel, and the Gospel alone, that brought Immortality to light." How far is this true in relation to Greek philosophy?

8. Can the practical be disjoined from the theoretical philosophy of Kant?

9. How has the idea of Development influenced Ethical Theory in modern times?

SECOND PAPER.

(*Answer* SEVEN *questions.*)

1. "A godless world and a worldless God are alike abstractions." Examine this view, comparing it with the doctrines of Agnosticism and Deism.

2. "A rational being can desire nothing but the good, and must always desire it." Examine this.

3. "The Stoic idea of Freedom is closely related to Caprice." "The Stoic idea of Freedom is removed *toto caelo* from Caprice." Explain and criticise these statements.

4. What is the relation of moral evil to the consciousness of it? Explain the bearing of your answer on the controversy between Optimism and Pessimism.

5. "It is the prerogative of every man to say 'I,' and to write it with a capital." How does this truth affect the application of the idea of organism to Society? Refer to Spencer's view.

6. What is meant by the distinction of Faith and Reason? What are their relations?

7. Is there any distinction in principle between the rights of Private and Corporate Property?

8. What does Hegel mean by "immanent finality"? How does his conception of finality affect the argument from Design?

9. "The highest goodness is unscrupulous." Examine this.

MATHEMATICS.

FIRST PAPER.

1. The feet L, M, N of the perpendiculars let fall on the sides of a triangle from any point P in the circumference of the circumscribing circle are collinear.

If the line LMN, produced if necessary, meet the perpendiculars from A, B, C on the opposite sides of the triangle in G, H, K, and O be the orthocentre, show that $PLOG$, $PMOH$, $PNOK$ are parallelograms.

2. The circle circumscribing the triangle formed by any three tangents to a parabola goes through the focus.

If PQR be the triangle: p, q, r the points of contact of the sides QR, RP, PQ respectively, show that $PQ \, . \, PR = Rq \, . \, Qr$.

3. In an ellipse, if PG be the normal at P, meeting the major axis in G, and CD the semi-conjugate diameter, prove that $PG : CD :: CB : CA$.

If the normal at P meet the axes in G, g, and the tangents at P and D meet in T, show that the angles PTG and PgT are equal.

4. Define a determinant; and show that if the constituents of any row or column be increased or diminished by any equi-multiples of the corresponding constituents of one or more of the other rows or columns, the determinant is unaltered in value.

Prove that
$$\begin{vmatrix} a^2+\lambda & ab & ac & a^2 \\ ab & b^2+\lambda & bc & b^2 \\ ac & bc & c^2+\lambda & c^2 \\ a & b & c & 0 \end{vmatrix} = \lambda^2(a^3+b^3+c^3).$$

5. Assuming the Binomial Theorem for a positive integral exponent, prove it for any exponent.

Prove that the following series are identical :—

$$1+\frac{1}{2^3}+\frac{1\,.\,3}{1\,.\,2}\cdot\frac{1}{2^6}+\frac{1\,.\,3\,.\,5}{1\,.\,2\,.\,3}\cdot\frac{1}{2^9}+\frac{1\,.\,3\,.\,5\,.\,7}{1\,.\,2\,.\,3\,.\,4}\cdot\frac{1}{2^{12}}+\dots$$

and $$1+\frac{1}{6}-\frac{1}{1\,.\,2}\cdot\frac{1}{6^2}+\frac{1\,.\,3}{1\,.\,2\,.\,3}\cdot\frac{1}{6^3}-\frac{1\,.\,3\,.\,5}{1\,.\,2\,.\,3\,.\,4}\cdot\frac{1}{6^4}+\dots$$

6. Sum the following series to n terms :—

(i.) $1^2+2^2+3^2+\dots$

(ii.) $1\,.\,3\,.\,6+2\,.\,4\,.\,7+3\,.\,5\,.\,8+\dots$

(iii.) $\frac{4}{1\,.\,2\,.\,3}+\frac{5}{2\,.\,3\,.\,4}+\frac{6}{3\,.\,4\,.\,5}+\dots$

7. Define a differential coefficient, and obtain from your definition, without reference to rules, the differential coefficients of $\sin(a+bx^n)$, $\log(x+\sqrt{x^2+1})$. Deduce the expansion

$$\log(x+\sqrt{x^2+1}=x-\frac{1}{2}\cdot\frac{x^3}{3}+\frac{1\,.\,3}{2\,.\,4}\cdot\frac{x^5}{5}-\frac{1\,.\,3\,.\,5}{2\,.\,4\,.\,6}\cdot\frac{x^7}{7}+\dots$$

8. Show how to find the asymptotes of a curve whose equation is given in the form $(ax+byc)\phi_{n-1}+\psi_{n-1}=0$, where ϕ_{n-1}, ψ_{n-1} are functions of x and y of degree $n-1$.

Find the asymptotes of the curve $(x^2-y^2)(x-2y)+x^2-xy-6y^2=0$.

9. Find the expression $\rho=p+\frac{d^2p}{d\psi^2}$, for the radius of curvature of a plane curve, pointing out the geometrical meaning of each term of the equation.

Apply to the parabola; and show that the polar co-ordinates of the centre of curvature referred to the focus are given by the relations

$$r^2=\frac{a^2}{\sin^4\psi}(1+4\cot^2\psi):\ \tan(\theta)=\frac{2\cot^3\psi}{1+3\cot^2\psi}.$$

10. Integrate $\int\operatorname{cosec}\theta d\theta$, $\int\frac{dx}{1+\cos a\cos x}$, $\int\frac{dx}{(px+q)\sqrt{a+2b+cx^2}}$.

Show how $\int\frac{dx}{(a+b\cos x)^n}$ can be made to depend on $\int\frac{dx}{a+b\cos x}$, when n is a positive integer.

11. Evaluate the definite integrals

$$\int_0^\infty e^{-a^2x^2}dx,\qquad\int_0^\infty e^{-a^2x^2}\cos bx dx,\qquad\int_0^\pi\frac{dx}{(1-e\cos x)^2}.$$

Find the whole area of the curve $x^4+y^4=a^2(x^2+y^2)$.

12. Show that the area of a curve, divided into n parts by $n+1$ equidistant ordinates $u_0u_1\dots u_n$, is given approximately by

$$\int_0^n u_x dx=nu_0+\frac{n^2}{2}\Delta u_0+\left(\frac{n^3}{3}-\frac{n^2}{2}\right)\frac{\Delta^2u_0}{1\,.\,2}+\left(\frac{n^4}{4}-n^3+n^2\right)\frac{\Delta^3u_0}{1\,.\,2\,.\,3}+\dots$$

Find the area when there are four ordinates at unit distance apart.

SECOND PAPER.

1. If a straight line be perpendicular to each of two straight lines at their point of intersection, it is perpendicular to the plane passing through these two straight lines.

From the middle point of a regular hexagon a straight line is drawn at right angles to the plane of the hexagon, and the angular points of the hexagon are joined to a point on this line whose distance from each angular point is equal to twice the length of the side of the hexagon; prove that the angle between two lateral faces of the solid so formed is $\cos^{-1}(-\frac{3}{5})$.

2. Find expressions for the radii of the inscribed and escribed circles of a triangle.

If I be the centre of the inscribed circle of a triangle ABC; I_1, I_2, I_3 the centres of the circles inscribed in the triangles BIC, CIA, AIB respectively, prove that

$$II_1 \cos\frac{B}{4}\cos\frac{C}{4} = II_2 \cos\frac{C}{4}\cos\frac{A}{4} = II_3 \cos\frac{A}{4}\cos\frac{B}{4} = \frac{1}{2}r,$$

where r is the radius of the inscribed circle of the triangle.

3. Find the exponential values of $\sin\theta$, $\cos\theta$; and show how to express $\cos^n\theta$ in a series of cosines of multiple angles.

Show that $\sin^4\theta\cos^3\theta = \frac{1}{2^6}\{\cos 7\theta - \cos 5\theta - 3\cos 3\theta + 3\cos\theta\}$.

4. Prove the following relations between the sides and angles of a spherical triangle :— (i.) $\cos a = \cos b\cos c + \sin b\sin c\cos A$;
(ii.) $\cos\frac{1}{2}(a+b)\sin\frac{1}{2}C = \cos\frac{1}{2}(A+B)\cos\frac{1}{2}c$;
and write down the three similar relations.

Deduce from (ii.) the relation

$$\cot\frac{s}{2} = \sqrt{\cot\tfrac{1}{4}E\tan\tfrac{1}{4}(2A-E)\tan\tfrac{1}{4}(2B-E)\tan\tfrac{1}{4}(2C-E)}$$

where E is the spherical excess.

5. Show that any homogeneous equation of the nth degree in x and y represents n straight lines.

Show that the area of the triangle contained by the lines

$$ax^2+2hxy+by^2=0, \text{ and } \frac{x-f}{\cos\theta}=\frac{y-g}{\sin\theta} \text{ is } \frac{(f\sin\theta-g\cos\theta)^2\sqrt{(h^2-ab)}}{a\cos^2\theta+2h\sin\theta\cos\theta+b\sin^2\theta}.$$

6. If four points on an ellipse lie on a circle, show that the sum of the eccentric angles is an even multiple of two right angles.

Hence (or otherwise) find the point in which the circle of curvature, at a point whose eccentric angle is ϕ, cuts the ellipse, and show that the square of the chord of curvature at the point $\phi=\frac{\pi}{4}$ is equal to twice the square of the line joining the ends of the axes of the ellipse.

7. Find the equation to the tangent to a hyperbola referred to its asymptotes.

If the polar of a point (XY) with regard to a hyperbola, referred to its asymptotes, meet the curve in the points (x_1y_1), (x_2y_2), show that

$$X(y_1+y_2)=Y(x_1+x_2)=\frac{a^2+b^2}{2}.$$

8. Find the equation and length of the shortest distance between two straight lines.

Write down the length of the shortest distance between the lines

$$y=3x+5 : z=2x+3, \text{ and } x+3y+2z=2(x+y+z)=4.$$

9. Investigate the equation to the enveloping cone of the ellipsoid

$$\frac{x^2}{a^2}+\frac{y^2}{b^2}+\frac{z^2}{c^2}=1.$$

A cone is described on the elliptic base $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$. Prove that the locus of the vertex so that it may have three generators at right angles is the ellipsoid $b^2x^2+a^2y^2+(a^2+b^2)z^2=a^2b^2$.

10. Define Principal Normal; Osculating plane of a tortuous curve, and find the equation to the latter. Deduce the condition for a plane curve.

11. What is meant by a Singular Solution of a differential equation, and what is its relation to the general solution?

Find whether the equation $2y=xp+\frac{a}{p}$ has a singular solution

12. Solve the differential equations :—

(i.) $x(3y^2-x)dy=y(2x-y^2)dx$;

(ii.) $\frac{d^4y}{dx^4}-4\frac{d^3y}{dx^3}+5\frac{d^2y}{dx^2}-4\frac{dy}{dx}+4y=x^2e^{3x}+\sin x$;

(iii.) $(y^3-z^3)p+(z^3-x^3)q=x^3-y^3$;

and the difference equations, $\left.\begin{aligned} u_{x+2}+2v_{x+1}-8u_x&=x \\ v_{x+2}-\ u_{x+1}-2v_x&=1^x \end{aligned}\right\}.$

NATURAL PHILOSOPHY.

FIRST PAPER.

1. Show that a system of forces acting on a rigid body can always be reduced to a single force and a single couple in a plane perpendicular to that force. Deduce the conditions for a single resultant.

Three forces P, Q, R act along the non-intersecting edges of a rectangular parallelopiped, whose edges corresponding to the forces are a, b, c. Prove that the forces have a single resultant if

$$\frac{a}{P}+\frac{b}{Q}+\frac{c}{R}=0.$$

2. Show how to find the centre of gravity of a plane area (1) in Cartesian, (2) in polar co-ordinates.

The ordinate of the centre of gravity of the area enclosed between the arcs of two concentric, similar and similarly situated ellipses and two radii vectores drawn to points whose eccentric angles are $\phi_1\phi_2$ is

$$\frac{2}{3}\cdot\frac{b}{a}\cdot\frac{a^3-a'^3}{a^2-a'^2}\cdot\frac{\cos\phi_2-\cos\phi_1}{\phi_1-\phi_2},$$

where a, a' are the semi-major axes of the ellipses.

3. Find the equations of equilibrium of a string resting in a plane under the action of a central repulsive force.

Find the law of force to the centre under which a string with both ends fixed rests in the form of an equilateral hyperbola.

4. Define the potential due to a system of attracting masses: and show that the components of attraction can be represented by the first differential co-efficients of this function.

Prove that the mean value of the potential over any spherical surface due to a system of external attracting masses is equal to the potential at the centre.

5. A particle moves in a plane: find its accelerations parallel to axes which rotate about the origin with different uniform angular velocities.

Deduce (or otherwise find) the radial and transversal accelerations of a particle moving in a plane curve.

6. In a central orbit, the difference of the squares of the velocities at any two points is independent of the path pursued.

If, in addition to the central force P, there be a transverse force T, show that the equation to the orbit takes the form

$$\left(\frac{d^2u}{d\theta^2}+u\right)\int\frac{2T}{u^3}d\theta=\frac{1}{u^2}\left(P-\frac{T}{u}\frac{du}{d\theta}\right).$$

7. A particle slides down a smooth curved tube; find the velocity and pressure on the tube at any point of the path.

A particle starts from rest at the cusp of a cycloid, whose base is horizontal and vertex lowest. Show that the pressure at any point due to gravity is equal to the pressure due to the velocity.

8. A rigid body oscillates about a fixed horizontal axis. Show that there is another axis about which the body would oscillate in the same time; and find the axis about which the time of oscillation is least.

Find the time of an oscillation of an elliptic lamina swinging in its own plane about the focus.

9. Enunciate D'Alembert's principle, and obtain from it the equations of motion of a rigid body in two dimensions.

A perfectly rough sphere of mass m rolls down a wedge of mass M and angle a, placed on a perfectly smooth table. If x be the distance of the centre of the sphere measured parallel to the inclined plane from its initial position, x' the distance through which the wedge has moved along the table, show that

$$(M+m)x'=mx\cos\alpha : \tfrac{7}{5}x-x'\cos\alpha=\tfrac{1}{2}g\sin\alpha\,.\,t^2.$$

10. Investigate the differential equation for the longitudinal vibrations of an elastic rod; and obtain the solution in the case in which one end is fixed and the other free.

11. With the usual notation, obtain the equations of fluid motion in the form $\frac{du}{dt}-2v\zeta+2w\eta=-\frac{d}{dx}\left(V+\int\frac{dp}{\rho}+\frac{1}{2}q^2\right)$ and similar equations.

If the motion be steady, prove that a family of surfaces

$$V+\int\frac{dp}{\rho}+\tfrac{1}{2}q^2=0$$

can be drawn to contain both the stream and vortex lines.

12. Find the form of the free surface of waves in deep water, stating clearly the assumptions you make in the solution.

Show that the energy of the motion is half kinetic and half potential.

13. Investigate the equation of the conduction of heat in two dimensions; and obtain Fourier's solution, for the case in which the medium extends indefinitely in both directions, in the form

$$v = \frac{1}{4\pi kt}\int_{-\infty}^{\infty}\int_{-\infty} e^{-\frac{(x-x')^2+(y-y')^2}{4kt}} f(x'y')dx'dy',$$

where $f(xy)$ represents the initial temperature at the point xy.

SECOND PAPER.

1. Define "irrotational motion" and "velocity-potential." Illustrate by examples.

2. Investigate the expression for fluid pressure in irrotational motion of a liquid, under the influence of gravity.

3. State the general law of circulation in any closed line of particles of a liquid; and deduce Helmholtz's laws of vortex motion.

4. Investigate the velocity-potential of the two-dimensional motion of a liquid in the neighbourhood of a solid cylinder moving through it with a given velocity V perpendicular to the axis of the cylinder, supposing there to be cyclic irrotational motion of the liquid round the cylinder.

5. Criticise the following statement:—"A steady stream impinges directly on a fixed plane lamina. The region of dead water behind the lamina is bounded on each side by a surface of discontinuity." Explain what the author means, by an illustrative diagram. Give reason for certainty that no such motion can take place with a perfect liquid. Describe what is observed in such circumstances, with a real liquid such as water.

6. Investigate the permanent temperature at any point in a solid shell bounded by two concentric spherical surfaces kept at any given temperatures.

7. Investigate the temperature at any time t in an infinite straight bar coated with an ideal varnish impermeable to heat; and given with temperature $= V\cos\frac{2\pi x}{l}$, at a distance x from any fixed point O.

8. A copper globe 4 cms. in diameter is hung from a fixed support by a copper wire 1 m.m. thick and 6 cms. long. The support is kept permanently at 50° C. above the surroundings. Find the temperature of the globe. Emissivity, $\frac{1}{4000}$; Conductivity of Copper, 0·91.

9. Investigate the electric images in two infinite conducting planes meeting at a right angle; supposing an electrified body to be fixed anywhere in this angle.

10. Enunciate the fundamental proposition of electric images for the case of an uninsulated spherical conductor, influenced by an electrified point. Deduce a construction for the successive images in two neighbouring spherical conductors, both uninsulated.

IV.—FOR DEGREE OF B.Sc.

A.—IN NATURAL SCIENCE.

FIRST EXAMINATION.

1. Mathematics—See pp. 331—334.
2. Natural Philosophy—See pp. 334—336.
3. Chemistry—See p. 374.
4. Botany—See pp. 374.
5. Zoology—See p. 375.

SECOND EXAMINATION.

Group IV. BOTANY.

1. Give an account of the movements of Mimosa: describe the organ of motility, the mechanism of the movements, and the conditions under which they are seen; suggest what service the movement may be to the plant.

2. Describe the structure and various modes of reproduction of Chara, and discuss the question of the systematic position of the Characeæ.

3. Discuss the sources from which plants obtain their supplies of nitrogen.

4. Give an account of the chief types of weeds of arable land, quoting native examples, and explaining how they succeed in holding their ground (refer each example quoted to its natural order).

5. Explain on comparative grounds the reason for styling the ovule of Phanerogams a Macrosporangium, and the embryo sac a Macrospore.

6. What is meant by obdiplostemony? Give examples, and suggest explanations.

The examination also includes a three hours' practical examination in the Laboratory, and an oral examination.

B.—IN ENGINEERING SCIENCE.

a.—MATHEMATICS.

FIRST PAPER.

1. Prove that the inverse of a circle with respect to a point on the circumference is a straight line.

Hence show that the rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the rectangles contained by the opposite sides.

2. If a straight line be perpendicular to two straight lines at their point of intersection, it will be perpendicular to the plane containing them.

Find the angle between any two faces of a regular pyramid formed by four equilateral triangles.

3. Prove that the area of the parallelogram formed by the tangents at the ends of conjugate diameters is constant.

4. Investigate the condition that the general equation of the second degree

$$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0,$$

should represent two straight lines.

5. Find the condition that the line $y = mx + c$ should be a tangent to the parabola $y^2 = 4ax$.

The straight line joining the focus to the point of intersection of the tangents at the ends of a focal chord bisects the intercept which they make on the tangent at the vertex.

6. Find the polar equation to the tangent to an ellipse in the form $\frac{l}{r} = e \cos\theta + \cos(\theta - \alpha)$.

Prove that, in the parabola, the distance from the focus of the point of intersection of the tangents at points whose vectorial angles are α, β is $2a \sec\frac{\alpha}{2} \sec\frac{\beta}{2}$, where $4a$ is the latus rectum.

7. Trace the curves

(i) $11x^2 + 84xy - 24y^2 - 208x + 312y - 832 = 0$,
(ii) $9x^2 - 24xy + 16y^2 + 6x - 17y - 22 = 0$.

8. Give the definition of a differential coefficient, and obtain from it the differential coefficients of x^n, e^{ax}, $\sin^{-1} x$.

Prove that the differential coefficients of

$$\sin^{-1}\frac{ax+b}{a+bx} \text{ and } \sin^{-1}\frac{\sqrt{(a^2-b^2)(1-x^2)}}{a+bx}$$

are equal and opposite.

9. If $y = x^x$, prove that

$$\frac{1}{y}\frac{d^3y}{dx^3} = (1 + \log x)^3 + \frac{3}{x}(1 + \log x) - \frac{1}{x^2}.$$

10. Show how to find the maximum and minimum values of a function of one variable.

Find for what values of x the expression

$$\frac{1 + 2x \tan^{-1}x}{1 + x^2}$$

is a maximum or minimum.

11. Prove that the length of the perpendicular from the origin on the tangent to a plain curve is given by the formula

$$\frac{1}{p^2} = u^2 + \left(\frac{du}{d\theta}\right)^2.$$

Show that the angle between two tangents to the lemniscate $r^2 = a^2 \cos 2\theta$ is equal to three times the angle between the corresponding radii.

12. Investigate the expression for the radius of curvature

$$\rho = p + \frac{d^2p}{d^2\psi^2}.$$

13. Evaluate the integrals

$$\int \operatorname{cosec} x dx, \quad \int x\sqrt{a^2 - x^2}\, dx, \quad \int_{\frac{\pi}{2}}^{\pi} \sin^3\theta \cos^2\theta d\theta.$$

SECOND PAPER.

1. Find within what limits the expression

$$\frac{2x^2 - 7x + 12}{x^2 - 7x + 6}$$

nust lie in order that x may be real.

2. Find the sum of the cubes of the first n natural numbers, and sum to n terms the series

$$1 . 2^2 + 2 . 3^2 + 3 . 4^2 + \ldots\ldots$$

3. If n be a positive integer, prove that the coefficients of terms equidistant from each end of the expansion $(1+x)^n$ are equal.

Find the coefficient of x^4 in the expansion $(1+2x)^2(1+x)^{-n}$.

4. If β be the bisector of the angle A of a triangle, prove that

$$\beta\,(b+c) = 2bc \cos\frac{A}{2}.$$

5. Solve the cubic equation

$$8x^3 - 24x^2 + 21x - \tfrac{11}{2} = 0.$$

6—13. See pp. 333, 334.

b.—NATURAL PHILOSOPHY.

1. Dynamics.

1. Find the resultant R of two forces P and Q acting at an angle ω.

If the force P be increased by R, prove that the new resultant makes with the old one an angle whose tangent is

$$\frac{Q \sin\omega}{P + R + Q\cos\omega}.$$

2. Prove that any system of forces can be reduced to a single force, and a couple in a plane perpendicular to the force; and show that this mode of reduction is unique.

3. Enunciate and prove Pappus' Theorem regarding the area of a surface generated by the revolution of a given curve about a given straight line.

4. Find the relation between the tensions at the ends of a heavy string resting on a smooth curve, and the pressure of the string on the curve at any point.

5. Find the Moment of Inertia of a solid homogeneous sphere about any diameter.

Prove that the Moment of Inertia of a solid sector of a sphere about its axis is $\frac{2}{15}\pi a^5(2 - 3\cos\alpha + \cos^3\alpha)$, where a is the radius of the sphere and α the inclination of any bounding radius to the axis.

6. Prove that parallel sections of the same cone of equal thickness equally attract a particle at the vertex.

7. Define Simple Harmonic Motion and show that the period is independent of the arc of oscillation. Hence show that the cycloidal pendulum is isochronous and find the time of oscillation.

8. If two imperfectly elastic spheres impinge obliquely, show that the loss of kinetic energy is $1-e^2$ times one quarter of the harmonic mean of the masses multiplied by the square of their relative velocity along the line of centres before impact.

9. A particle is constrained to move on a given curve; find the velocity at any point and the pressure on the curve.

10. Find the velocity of a particle which moves in a straight line under the action of a force varying inversely as the square of the distance, and the time to any point.

A particle falls from a height h above the Earth's surface, radius R. If the Earth be pierced by a tube reaching to the centre of the Earth and the particle enter this tube, find the velocity of the particle when it reaches the Earth's centre.

11. Investigate the radial and transversal accelerations of a particle moving in a polar curve; and deduce the polar differential equation of the path of a particle moving under a central force.

12. Investigate the formula $v^2=\frac{1}{2}Fq$, where v is the velocity of a particle moving under a force F, and q is the chord of curvature through the centre of force.

Deduce the law of force of a particle moving in an equiangular spiral under a force in the pole.

2. PHYSICS. See Second Paper, pp. 335, 336.

C.—ENGINEERING.

FIRST PAPER.

(NOTE.—*Candidates for B.Sc. in Naval Architecture are required only to answer questions* 6, 7, *and* 8 *in this paper.*)

1. What are the conditions of mutual adjustment between the object glass, diaphragm, telescope bubble-tube, and horizontal axis of a transit theodolite? Explain briefly how these adjustments may be accomplished.

2. Complete and check the accompanying levelling field book, and make a sketch illustrating the operations recorded.

3. Investigate a formula for the correction for curvature of the earth on levelling operations. Explain the phenomenon of atmospheric refraction. What correction for curvature of the earth and refraction would you make upon a levelling observation at 1000 yards' distance?

4. State the chief general considerations which should influence an engineer in selecting a route for a railway between two given places.

5. A railway curve is to be set out in which an angle of $\frac{1}{2}'$ at the circumference subtends an arc of 46 links. Find the radius of the curve, and explain in detail how to proceed to set out the curve when the point of intersection of the given tangents is inaccessible. Formulas need not be given.

6. Explain the chief properties of mild steel as exhibited in the accompanying stress-strain diagram, and calculate the amount of work expended per cubic inch in stressing the piece up to its maximum load.

Would it be proper to calculate from the stress-strain diagram the whole amount of work expended per cubic inch in breaking the material?

7. Find the nature and magnitude of the stress across a helical section of a cylindrical tube 4 feet diameter, $\frac{1}{2}$ inch thick, and subject to an internal pressure of 300 lbs. per square inch, the helix having an inclination of 45° to the axis of the cylinder.

8. Explain how to determine the stresses in the loaded frame shown in the accompanying diagram, stating and justifying any assumptions you make.

SECOND PAPER.

1. Explain the principle of the comparison of similar structures as to their strength, and illustrate it by several examples.

2. How do the strength and stiffness of solid shafts vary with their diameters? Show reasons for your answer.

3. Draw a diagram of shear for the loaded beam shown on the accompanying sheet. Explain the distribution of the shear across the section X and find its maximum intensity, the beam being rectangular in section and 10 inches deep by 6 inches broad.

4. Show how the strength and stiffness of beams of rectangular section vary with their breadth and depth.

5. Investigate a formula for the reaction of a jet of water issuing from a stationary vessel, and apply it to the investigation of the modes of flow of water from a circular orifice in a flat plate, and from a sharp edged re-entrant tube.

6. Show how the efficiency of an impact wheel having flat veins perpendicular to the direction of the jet varies with the speed of the wheel, explaining what becomes of the energy not utilized in the performance of useful work.

7. Show how to find the total pressure upon a vertical plane area of any form immersed in water, and also the centre of pressure.

8. Investigate upon correct principles a formula for the flow of water through a right-angled **V** notch.

9. Explain the changes which take place in the mode of flow of water in a pipe as the velocity is increased from a very low to a very high velocity. Investigate a formula for the resistance per unit of length of the pipe at low velocities, and state how the resistance varies with the velocity under different conditions.

HONOURS.

SUPPLEMENTARY PAPER No. 1.

1. Describe Peaucellier's linkwork, and prove that it gives a straight line motion.

2. The stroke of an oscillating engine is 5′ 6″, and the distance between the centre line of the trunnions and the centre of the shaft is 7′ 6″. The engine makes 80 revolutions per minute. Find the angular velocity of

the cylinder at each of the dead points, and when the crank has advanced 45° from the dead centre nearest the trunnions.

3. A beam of uniform section. 20 ft. long, is built into a wall at one end, and, when unloaded, the other end rests without pressure upon a rigid support. Assuming any formulas you know for semi-girders, deduce a formula for the bending moment at the wall, and draw to scale the curves of bending moment and shear for the beam when loaded with 100 lbs. per foot run.

4. Find the stresses in the loaded frame shown in the accompanying diagram, and indicate by thick lines or otherwise which bars are subject to push stresses.

5. The accompanying figure shows diagrammatically an arrangement of cylinder, air pumps, etc., for paddle engines. Find by the methods of graphical statics the stresses in the various links, and the total force which must be applied to the piston to produce a force of 1000 lbs. on the air pump bucket, neglecting the friction of the pivots and inertia. What kinematic conclusions can you draw from your results?

6. Give a short account of the nature and results of recent experimental and theoretical investigations into the friction of lubricated journals.

HONOURS.

SUPPLEMENTARY PAPER No. 2.

1. Assuming the so-called "laws of solid friction" to hold for a belt upon a pulley, find the horse power which will be expended in friction on a stationary belt passing once round a pulley 6 ft. in diameter which makes 120 revolutions per minute, the tension of the tight side of the belt being 250 lbs. and the co-efficient of friction 0·3. Investigate the formulas you use.

2. How many revolutions per minute must a fly-wheel 8 ft. in diameter make to produce a tension of 1000 lbs. per square inch in the rim, neglecting the influence of the arms. Prove the formula you use.

3. Give a short account of the process of testing a jet condensing engine as to its indicated and brake horse powers and consumption of steam, and deal more especially with the precautions to be taken to ensure accuracy in the determination of the indicated horse power.

4. Describe the essential conditions, and investigate the efficiency, of a perfect heat engine, and show the principal causes of loss of efficiency in steam engines.

5. Show the suitability of cycloidal and involute curves for the teeth of wheels, and explain the principle upon which the teeth of worm wheels should be designed.

6. For the double cantilever shown on the accompanying sheet explain how you could find the amount and direction of the motion of the point P due to the addition of a given load over the span CB. The dimensions of each bar are supposed to be known. The point A is anchored down to the pier, but free to move longitudinally. You may neglect the bending of the individual bays of the boom AB.

d.—DRAWING.

1. Assume the projections of two lines and find a plane which passes through one of the assumed lines and is parallel to the other.

2. Draw the projections of a line which makes 35° with the horizontal plane of projection and 25° with the vertical plane of projection.

3. The accompanying figure represents a solid and a plane indicated by its traces. Find the true form of the section of the solid by the plane.

4. From the data in the accompanying diagram, determine the angle between the edge *av—a′v′* and the cutting plane.

5. From the data in the accompanying diagram find the angle between the face *vab—v′a′b′* and the cutting plane.

6. A pillar 2 ft. square and 4 ft. high stands centrally upon a circular block 2 feet 6 inches diameter and 1 foot thick, which again rests centrally upon a hexagonal block having sides 20 inches long and 15 inches deep. Draw an isometric projection of the whole to a scale of 1 inch to the foot.

7. Complete the accompanying drawing.

e.—NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

FIRST PAPER.

1. The equidistant ordinates to a plane curve are 4·6, 5·3, 5·8, 6·1, 6·2, 6·2, 5·9 and 5·4 ft., and the common interval 8 ft.; find the area by the rule which is a combination of the three eight rule and the five eight rule.

2. A prism floating upright with the same draught of water at both ends, has an immersed section made up of a rectangle 30 ft. broad and 8 ft. deep, and a triangle beneath it having the same base as the rectangle, the other two sides making each an angle of 30° with it; find the displacement in salt water in tons, the length being 200 ft., and also the distance of the centre of buoyancy beneath the water plane.

3. Find the distance of the centre of gravity of the plane area of Example 1 from one of the end ordinates.

4. Define the transverse metacentre.

Find the height of the transverse metacentre of the prism of Example 2 above the centre of buoyancy.

5. Explain fully the construction of the metacentric diagram, and show how to determine from it the positions of the transverse metacentre and centre of buoyancy corresponding with any draught of water.

6. Define the longitudinal metacentre, and sketch the form of the table by which you would calculate its height in a vessel.

The moment of inertia of a vessel's water plane about a transverse axis 90 ft. distant from one of the end ordinates is 20,000,000, the area of the plane is 6,000 square ft., and the distance of its centre of gravity from the same ordinate as above is 8 ft.; find the height of the longitudinal metacentre above the centre of buoyancy, the displacement being 3,000 tons.

7. A vessel whose displacement is 3,000 tons and length 260 ft. floats at a draught of water of 18 ft. 6 in. forward, and 19 ft. 6 in. aft. A weight of 60 tons, which is sufficiently great to immerse her 3 in. bodily, is placed on board, at a distance of 40 ft. abaft the centre of gravity of the water plane, which point is 10 ft. abaft the middle of the length; find the draughts of water forward and aft after the addition of the weight, assuming the height of the longitudinal metacentre above the centre of gravity after the weight is placed on board to be 200 ft.

8. A vessel floating in still water has a compartment bounded by transverse bulkheads laid open to the sea; explain fully how you would proceed to find the effect upon her trim.

(1) If the compartment in question be empty.

(2) If it be filled with cargo which admits of water occupying a given percentage of the immersed volume.

9. Describe the inclining experiment, and state what precautions should be taken to insure accurate results.

A vessel, whose displacement is 1600 tons, is inclined from the upright transversely through an angle whose tangent is ·05 by a weight of 2 tons moved across the deck through 24 ft.; find the metacentric height, and state how you would determine the actual position of the centre of gravity in the vessel.

10. Radii drawn from a given origin at equal angular intervals of 8° in the same plane to meet a curved plane boundary, have values 6·0, 7·2, and 8·0 ft.; find the moment of the area enclosed between the first and last drawn radii and the curved boundary about a line drawn through the origin in their plane at right angles to the first drawn radius. Cosine 8° = ·9903, cosine 16° = ·9613.

11. Write down the expression giving the total heat of combustion of 1 pound of coal, derived from the combustion separately of its constituents in oxygen. Apply the formula to the case in which the carbon present in 1 pound of coal is ·80 lb., hydrogen ·05, and oxygen ·06.

Explain why in practice the calorific value of a compound such as olefiant gas is different from the sum of the calorific values of its constituents burnt separately in oxygen.

12. Investigate an expression giving the stress in the shell of a circular boiler of known dimensions subject to a given steam pressure. How in practice would the amount of this stress be modified at a seam?

13. What surfaces are usually included in the heating surface of a boiler?

SECOND PAPER.

1. A beam 20 ft. long is loaded with weights of 4, 6, 8 and 2 tons at distances from one end of 2, 7, 14 and 17 ft. respectively, and is supported at one point of its length; assuming it to be in equilibrium, find the position of that point, and construct to scale diagrams of shearing force and bending moment, the weight of the beam being neglected.

2. A vessel floats at rest in still water. Assuming the distribution of the weights known, how would you proceed to construct curves of buoyancy, loads, shearing force, and bending moment?

3. Two steel plates are joined together with a single riveted lap. Assuming the strength of the pierced plate to be 33 tons per sq. in. between the holes, the shearing strength of the rivets 22 tons per sq. in., and the maximum bearing pressure permissible 43 tons, find the best diameter of rivet in terms of the thickness of the plate, and also the best pitch in terms of the diameter.

4. Define stress and strain.

Construct a diagram showing roughly the strain in terms of the stress for an ordinary test piece of mild steel, and discuss the chief features of such a diagram.

5. A beam 2 ins. broad and 10 ins. deep is loaded with a weight of 2 tons at one end; at how great a distance from the end does the maximum stress in a transverse section amount to 5 tons.

Show by a diagram how the stress varies over the section.

6. A rectangular box 20 ft. broad and 10 ft. deep is built up of plates that are $\frac{3}{4}$ inch thick in the bottom, $\frac{1}{2}$ inch thick in the sides, and $\frac{1}{4}$ inch thick on the top; assuming the upper face to be horizontal, find the position of the neutral axis and the moment of inertia of the section. All longitudinal material other than the plating may be neglected and also the laps, the upper part may be supposed in tension, and rivets in a transverse section may be taken to be eight diameters apart.

7. A vessel is inclined away from the upright position through a known angle. Assuming the bending moment amidships to remain unchanged, show how to determine the position of the neutral axis when the vessel is inclined, and also the stress per square inch at the upper gunwale.

8. A uniformly loaded beam, such as a deck beam in a ship, is fixed horizontally at the ends and supported in the middle; draw roughly a diagram of bending moment, and find the points of the length at which the bending moment changes sign.

9. The plating in the bottom of a vessel is $\frac{3}{4}$ inch thick, and the frames 2 ft. apart. Assuming the draught of water to be 26 ft. and the plating to behave as a beam, find the stress in the material per square inch, the influence of laps being neglected.

10. If a vessel be assumed to be momentarily in equilibrium on the crest of a trochoidal wave, state the effect which the inclusion of the variation in the law of pressure in the wave water from that for still water has upon the bending moment amidships, and explain how in such a case you would proceed to calculate the bending moment due to water pressure.

11. The stroke of a piston is 3 ft. 6 ins. and the connecting rod is 9 ft. long; find the position of the crank when the piston has completed the first quarter of the forward stroke.

12. Describe some of the common forms of parallel motion.

13. Assuming steam in the cylinder of an engine to expand hyperbolically after the cut off, show how to construct a linear diagram of crank effort, back pressure and friction being neglected.

14. Show how to correct an indicator diagram in respect of the inertia of the reciprocating parts.

THIRD PAPER.

1. Define the longitudinal metacentre.

Prove that the height of the longitudinal metacentre above the centre of buoyancy is given by the expression

$$BM=\frac{I}{V},$$

where I is the moment of inertia of the water plane about a transverse axis through its centre of gravity, and V the volume of displacement.

2. Having given the plans of a vessel, state how you would prepare the body for the calculation of the stability.

3. Deduce Atwood's formula for the statical stability of a vessel at any inclination.

4. Indicating by letters the totals at the feet of the columns in the preliminary tables, deduce the value of a vessel's righting arm at an inclination θ from the upright, θ being the angular interval.

5. A vessel whose displacement is 2000 tons has a righting arm of 1 ft. at an inclination of 30°. Cargo weighing 400 tons is taken out of her, its centre of gravity being 2 ft. below the vessel's centre of gravity in the middle line plane. The centre of buoyancy of the layer through which the vessel rises is 6 inches beyond the vertical through the centre of buoyancy on the immersed side; find the length of the righting arm after the removal of the cargo.

6. Define a cross curve of stability, and explain how you would proceed to construct such a curve for a given inclination.

Deduce an expression for the direction of the tangent to a cross curve at any point for which the calculation of the righting moment has been made.

7. A flush decked vessel is inclined transversely and about a longitudinal horizontal axis capable of moving up and down so as to maintain a constant displacement; sketch the form which the locus of the transverse metacentre takes, and discuss the conditions of equilibrium for different positions of the centre of gravity.

If the vessel in question has an intact bridge-house amidships, how is the form of the above locus modified?

8. What is meant by a perfect fluid?

Prove that a body of fair form moving in an infinite ocean of perfect fluid meets with no resistance to its uniform motion in a straight line.

9. State the results at which Mr. Froude arrived in his experiments upon the surface friction resistance of plane surfaces.

10. Enunciate the law of comparison, and show by an example its application.

11. A model 10 feet long is $\frac{1}{25}$ the size of the vessel it represents. At a speed of 3 knots per hour the resistance is 4 lbs., of which 2·2 lbs. are due to surface friction, and the remainder due to wave making resistance. Deduce the resistance of the vessel at the corresponding speed, the wetted surface of the model being 28 square feet. It may be assumed that the surface friction resistance of a vessel 250 feet long at 6 knots is ·229 lbs. per square foot of surface wetted, and that $(\frac{15}{6})^{1\cdot825}=5\cdot32$.

12. Deduce the indicated horse power of the vessel of the last ex-

ample, assuming the effective horse power to be 50 per cent. of the indicated.

13. Show how a curve of indicated thrust may be constructed. What methods of determining the constant friction of the engines have been suggested?

14. Write down an equation giving the total heat of evaporation of 1 lb. of water from 32° at $t°$, and apply it to the case in which $t° = 300°$.

15. A non-condensing engine works at 160 lbs. pressure per sq. in., the back pressure is 16 lbs. per sq. in., and the feed water is heated to 212° before admission to the boiler. Taking the volume of one lb. of steam to be 2·78 c. ft., and the temperature $363\frac{1}{4}°$, find—

1. The effective work per lb. of steam,
2. The number of lbs. of steam per I.H.P. per hour,
3. The efficiency.

16. Assuming a cylinder to be covered by a steam jacket, and the steam in the cylinder to be dry and saturated at the end of the stroke, deduce an expression giving the amount of heat supplied by the jacket per lb. of steam.

V.—FOR DEGREES OF M.B. AND C.M.

I.—EXAMINATION IN GENERAL EDUCATION.

ENGLISH.

1st October, 1890.

1. Dictation.

2. Classify pronouns, giving two examples of each class. Decline—*who, thou, it.*

3. What is a *participle?* Define these moods—*indicative, infinitive, potential.*

4. Explain the following grammatical terms:—*Number, comparison, indirect object, phrase, completion of the predicate, illative clause.*

5. Give the derivation of—Harmony, discord, street, detract, lord, enchant, abyss; and illustrate the use of these prefixes:—*inter, un, over, per, re.*

6. Analyse this sentence and parse the words in italics:—

> *Methought* I sate *beside* a public way
> Thick *strewn* with summer dust, and a great stream
> Of people there was hurrying to and *fro*,
> *Numerous* as *gnats* upon the evening gleam,
> All *hastening* onward, *yet none* seemed to know
> *Whither* he went or whence he came or why
> He made one of the multitude.

7. Write an essay on *one* of these subjects—Pestilence, *or* Mr. Stanley, *or* A life at sea.

25th March, 1891.

1. Dictation.

2. What are the rules for forming the plural of nouns? Define *number, case, gender.*

3. Classify adjectives. How are adverbs formed from adjectives? Compare ill, top, happy, idle, gently, well.

4. Give the derivation of—Sanctuary, precipice, astrology, obsequies, tact, purple, alchemy, eminence, quiet; and illustrate the use of these prefixes—*con*, *pro*, *in*, *de*, *re*, *super*.

5. How is *tense* indicated in English? Write out the *past tense singular* and the *future perfect plural* of—*be*, *run*, *link*, *think*, *go*.

6. Analyse this sentence, and parse the words in italics—

He *has* outsoared the shadow of *our* night;
Envy and calumny, and *hate* and pain,
And *that* unrest which men miscall delight,
Can *touch* him not and torture not *again*;
From the contagion of the world's slow *stain*
He is secure, and now can *never* mourn
A heart grown cold, a *head* grown grey in vain;
Nor, *when* the spirit's *self* has ceased to burn
With sparkless ashes *load* an unlamented urn.

7. Write an essay on your favourite poet, *or* dogs, *or* the pleasures of an examination.

LATIN.

1*st October*, 1890.

1. Translate—

(*a*) Cicero ad haec unum modo respondit: Non esse consuetudinem populi Romani *accipere* ab hoste armato condicionem: si ab armis discedere *velint*, se adjutore *utantur*, legatosque ad Caesarem mittant, *sperare* pro ejus justitia, quae petierint impetraturos. Ab hac spe repulsi Nervii vallo pedum novem et fossa pedum quindecem hiberna cingunt. Haec et superiorum annorum consuetudine ab nobis cognoverant, et quosdam de exercitu nacti captivos, ab iis docebantur; sed nulla ferramentorum copia, quae *esset* ad hunc usum idonea, gladiis caespites circumcidere, manibus sagulisque terram exhaurire cogebantur.

(*b*) Postquam altum tenuere rates nec jam amplius ullae
Apparent terrae, *coelum* undique et undique pontus,
Tum *mihi* coeruleus supra caput astitit imber
Noctem hiememque ferens et inhorruit unda *tenebris*.
Involvere diem nimbi et nox humida coelum
Abstulit, ingeminant abruptis *nubibus* ignes.
Quarto terra *die* primum se attollere tandem
Visa, aperire procul *montes* et volvere fumum.
Vela cadunt, remis insurgimus, haud mora, nautae
Adnixi torquent spumas et coerula verrunt.

2. In passage (*a*) give the reason for the mood, and in (*b*) the reason for the case of the words in italics.

3. Give the gender, meaning, and genitive plural of—*nix*, *arbor*, *lapis*, *virtus*, *tribus*, *facinus*, *panis*, *sermo*.

4. Compare—*acer*, *idoneus*, *humilis*, *senex*, *diu*, *bene*.

5. Conjugate the verbs—*veto*, *censeo*, *figo*, *sumo*, *quaero*, *haurio*, *metior*, *findo*.

6. Translate into Latin—(*a*) Having left two legions in the town, the general led back the rest of his forces into winter quarters (*hiberna*).

(*b*) Let us remain (*maneo*) either at Carthage or Miletus for six months.

(*c*) Before the consul had made an end of speaking, so loud (*tantus*) a shout arose, that the enemy were frightened (*terreo*).

7. Translate—Huc naves undique ex finitimis regionibus et, quam superiore aestate ad Veneticum bellum effecerat, classem jubet convenire. Interim, consilio ejus cognito et per mercatores perlato ad Britannos, a compluribus insulae civitatibus ad eum legati veniunt, qui polliceantur obsides dare atque imperio populi Romani obtemperare.

25th March, 1891.

1. Translate—

(*a*) Hac in utramque partem disputatione habita, cum a Cotta primisque ordinibus acriter *resisteretur*, "Vincite," inquit, "si ita vultis" Sabinus, et *id* clariore voce, ut magna pars militum *exaudiret*: "neque is sum" inquit "qui gravissime ex vobis mortis periculo *terrear*: hi sapient, et, si gravius quid *acciderit*, abs te rationem reposcent: qui, si per te liceat, perendino *die* cum proximis hibernis conjuncti communem cum reliquis belli casum sustineant, non rejecti et relegati longe ab ceteris aut ferro aut fame intereant." Consurgitur ex consilio; comprehendunt utrumque et orant, ne sua dissensione rem in summum periculum deducant; facilem esse rem, seu maneant, seu *proficiscantur*, si modo unum omnes sentiant ac probent; contra in dissensione nullam se salutem perspicere.

(*b*) Tum procul e fluctu Trinacria cernitur Ætna,
et gemitum ingentem pelagi pulsataque saxa
audimus longe *fractas*que ad litora voces,
exultantque vada atque æstu *miscentur* arena.
et pater Anchises; 'nimirum hæc illa Charybdis;
eripite, o socii, pariterque *insurgite* remis.'
haud minus ac jussi faciunt, primusque rudentem
contorsit lævas proram Palinurus ad undas:
lævam cuncta cohors remis ventisque petivit.
tollimur in cœlum curvato *gurgite*, et idem
subducta ad manes imos desedimus unda.
interea fessos ventus cum sole reliquit
ignarique *viæ* Cyclopum adlabimur oris.

2. In the above passages, parse fully the words in Italics, explaining the cases of the nouns, and conjugating and explaining the moods of the verbs.

3. Decline in the Singular, *ista mollis manus, id majus corpus;* and in the Plural, *hic ingens bos, nullus pulcher dies.*

4. Give the Gender, Genitive Plural, and meaning of *humus, ordo, laurus, aes, palus, dens, sanguis, panis, nauta, pelagus;* and the Comparative and Superlative of *benevolus, vetus, humilis, dives, multum, acriter.*

5. What is the Latin for:—three and a half miles; 223 women; two camps; tell me; they will wish; they may have been advised; you will be spared; about to die; of going; up the hill; with us; in Cicero's consulship.

6. Translate into Latin—

(*a*) Cæsar delayed for a few days in their territories and then having burned all their villages (*vicus*) withdrew into the territories of the Ubii.

(*b*) He ordered Titus Labienus to go to Rome and levy (*conscribĕre*) a new army, being afraid that the soldiers he had would not be able to resist the invasion (*incursio*) of the Germans.

ARITHMETIC.

1*st October*, 1890.

1. From ninety-six million, fifty thousand and five subtract eight million, three hundred thousand and sixty-seven.

2. Find the quotient and remainder when seven hundred thousand, two hundred and four is divided by nine thousand and forty-five.

3. What is the cost of 2485 yards of cloth at 15s. 7½d. the yard?

4. Prove that the fraction $\frac{3+7+9}{5+12+14}$ is greater than the least, but less than the greatest, of the three fractions $\frac{3}{5}$, $\frac{7}{12}$, $\frac{9}{14}$.

5. What is the difference between $\frac{2\frac{3}{8}+3\frac{1}{4}}{7\frac{2}{3}-1\frac{5}{6}}$ and $\frac{3\frac{2}{7}+4\frac{2}{5} \text{ of } \frac{20}{33}}{6\frac{2}{3}-1\frac{5}{6} \text{ of } \frac{20}{33}}$?

6. Find the value of

$$105{\cdot}09+211{\cdot}748-300{\cdot}312+70{\cdot}814-{\cdot}0053.$$

7. Reduce 13 hours 4 minutes 20 seconds to the decimal of 1 day 2 hours.

8. Reduce, expressing the result as a decimal fraction,

$$\frac{{\cdot}\dot{0}1\dot{5}}{1{\cdot}\dot{6}} \div \frac{{\cdot}12\dot{5}}{{\cdot}25\dot{1}}.$$

9. Find the value of 175 tons 18 cwt. 3 qrs. at £38 13s. per ton.

10. What time should 24 men take to finish a work one-half of which 18 men have already done in 15 days?

25*th March*, 1891.

1. What must be added to the sum of eighty-nine and fifty-three to produce the difference between three hundred and sixty-one and one hundred and sixty-three?

2. Find the quotient and remainder when seven hundred and one thousand, three hundred and two is divided by four thousand and five.

3. A contractor employs a gang of 253 navvies, each of whom receives 3s. 4d. a day. How much would the wages amount to in 11 days?

4. Reduce to its lowest terms $\frac{10803}{141127}$.

5. Simplify $\frac{\frac{1}{3}+\frac{3}{4}-\frac{1}{5}}{\frac{1}{5}+\frac{4}{3}-\frac{1}{2}} \times 4\frac{3}{7}$.

6. Divide 3·672 by ·016 and multiply the quotient by ·0031.

7. Express one farthing as the decimal of a £.

8. What is the value of 5 cwts. 3 qrs. 19 lbs. at £2 15s. per cwt.?

9. If the penny loaf weigh 6 oz. when wheat costs 5s. per bushel, what ought the shilling loaf to weigh when wheat is selling at 7s. 6d. per bushel?

10. A man doing a journey of 18 miles finds that in two hours and a half he has walked a distance which is equal to $\frac{5}{7}$ths of the remaining distance. What is his speed?

ELEMENTARY MATHEMATICS.

NOTE.—*Book I. of Euclid and Algebra must be taken together.*

2nd October, 1890.

EUCLID—BOOK I.—AND ALGEBRA.

1. If two angles of a triangle be equal to one another, then the sides which are opposite to the equal angles shall be equal to one another.

2. If one side of a triangle be produced, then the exterior angle shall be greater than either of the interior opposite angles.

3. Describe a parallelogram that shall be equal to a given triangle and have one of its angles equal to a given angle.

4. Simplify, by removing the brackets and collecting like terms

$$3x^2-(4xy-2y^2)+(3y^2-7xy-2x^2)-\{7x^2-2xy-(3x^2-2y^2-4xy)\}.$$

5. Find the quotient and remainder when x^5-3x^2-1 is divided by $x^2-\frac{1}{2}x-2$.

6. Solve the equation, verifying your solution,

$$3x-2[3x-4\{2x-(3x-1)\}]+3=0.$$

7. The difference of 2 numbers is 22 and the smaller is eleven thirteenths of the greater: find the numbers.

EUCLID—BOOKS II. AND III.

8. If a straight line is divided equally and also unequally, the sum of the squares on the two unequal parts is twice the sum of the squares on half the line and on the line between the points of section.

9. On the same chord and on the same side of it there cannot be two similar segments of circles not coinciding with one another.

10. If two chords of a circle cut one another, the rectangle contained by the segments of the one shall be equal to the rectangle contained by the segments of the other.

EUCLID—BOOK I.—AND ALGEBRA.

26th March, 1891.

1. If one side of a triangle be produced, then the exterior angle shall be greater than either of the interior opposite angles.

2. Simplify $8[7a-6\{5a-4(3a-2\,.\,\overline{a-\tfrac{1}{2}})\}]$.

3. If a straight line fall on two parallel straight lines, then it will make the alternate angles equal.

4. Arrange the following expressions in descending powers of x, and then divide the first one by the second, giving both the quotient and the remainder, $3x-1+2x^2-x^4+3x^3$ and $2x+3+x^2$.

5. Equal triangles, on equal bases in the same straight line and on the same side of it, are between the same parallels.

6. Solve the equation $(x+1)^2+x^2-1=2x^2-8x-10$, and verify your solution.

7. A square grass plot would contain 64 square feet more if each side were 2 feet longer. How many square feet does the plot contain?

EUCLID—BOOKS II. AND III.

8. Describe a square equal in area to a given rectilineal figure.

9. The opposite angles of any quadrilateral inscribed in a circle are together equal to two right angles.

10. If from a point without a circle there be drawn two straight lines, one of which cuts the circle, and the other meets it, and if the rectangle contained by the whole line which cuts the circle and the part of it without the circle be equal to the square on the line which meets the circle, then the line which meets the circle shall be a tangent to it.

MECHANICS.

2nd October, 1890.

1. State the proposition known as "The Parallelogram of Velocities"; and draw a diagram representing the resultant of the following velocities: —1 east, 1 north, and 2 south.

2. A velocity of 3 east is changed into a velocity of 3 north: draw a diagram representing the magnitude and direction of the change and calculate the magnitude.

3. State Newton's First and Second Laws of Motion.

4. Apply the Second Law of Motion to determine the acceleration of a body of 2 cwts. acted on by a force equal to the weight of 7 lbs.

5. A stone is let fall from rest: how far will it fall (i.) in four seconds, (ii.) during the fourth second?

6. The ends of a string are tied to the rings of a picture and the string is then passed over a nail from which the picture hangs. Will the tension of the string be the same whatever its length may be? Give reasons for your answer.

7. In the Third System of Pulleys, in which each of the cords is attached to the Weight, find the Weight if the Power is 7 lbs. and four pulleys are used, each pulley weighing 2 lbs.

8. How much water will run over the edges of a cup just full of water when a cork of volume 2 cubic inches and specific gravity ·2 is placed gently so as to float in it?

9. The pressure in the water pipe at the basement of a building is 34 lbs. to the square inch, whereas at the third floor it is only 18 lbs. to the square inch. Find the height of the third floor. [A cubic foot of water weighs 1000 oz.]

10. Describe the single-barrelled air-pump and explain its working. If the volume of the cylinder be equal to that of the receiver, what portion of the air can be driven out in three strokes?

26th March, 1891.

1. Two forces, whose directions are at right angles to each other, act at a point. If the smaller force be 8 lbs. and the resultant 17 lbs., draw a diagram representing the magnitude of the other force, and calculate its magnitude.

2. Give the rule for finding the point of application and the magnitude of the resultant of three parallel forces.

A rod 15 ft. long, and weighing 30 lbs., has its centre of gravity at a point 5 ft. from one end; at the other end a weight of 10 lbs. is attached.

Find the distance from the end at which the weight is attached of the centre of gravity of the rod and weight.

3. If a balance have arms of unequal length, show how the true weight of a body may be determined by it. If the arms be 18 inches and $18\frac{1}{2}$ inches respectively, what will be the true weight of a body which when placed in the scale at the end of the longer arm appears to weigh 4 lbs.?

4. Two bodies, whose masses are 7 lbs. and 9 lbs. respectively, are moving in the same direction, with velocities of 8 ft. per second and 100 yds. per minute respectively; which has the greater momentum?

5. A body, whose mass is 12 lbs., is moving in a straight line with a velocity of 24 yds. per minute. What is the magnitude of the uniform force which, acting in the line of motion, would bring the body to rest in 24 seconds?

6. When is the whole amount of statical friction called into play, and in what direction does it act? A mass of 2 cwts. rests on a horizontal plane; find the horizontal force which will just be sufficient to move it if the co-efficient of friction be $\frac{1}{4}$.

7. Explain what is meant by the pressure of a fluid at a given point in a given direction, and show how it is measured when uniform.

Find the pressure in pounds weight per square inch at a depth of 30 inches in water and in alcohol. [Specific gravity of alcohol = ·85.]

8. Describe and explain the action of Bramah's Press. The diameters of the piston and ram of a press are 2 inches and 20 inches respectively; the force exerted by the piston is 60 lbs. weight; find the load which this force will support.

GREEK.

3rd October, 1890.

1. Translate—

(*a*) *Τίς δ' ἂν αἴσθησις ἦν γλυκέων καὶ δριμέων καὶ πάντων τῶν διὰ στόματος ἡδέων, εἰ μὴ γλῶττα τούτων γνώμων ἐνειργάσθη; πρὸς δὲ τούτοις οὐ δοκεῖ σοι καὶ τόδε προνοίας ἔργον ἐοικέναι, τὸ ἐπεὶ ἀσθενὴς μέν ἐστιν ἡ ὄψις, βλεφάροις αὐτὴν θυρῶσαι, ἃ ὅταν μὲν αὐτῇ χρῆσθαί τι δέῃ, ἀναπετάννυται, ἐν δὲ τῷ ὕπνῳ συγκλείεται; ὡς δ' ἂν μηδὲ ἄνεμοι βλάπτωσιν, ἠθμὸν βλεφαρίδας ἐμφῦσαι· ὀφρύσι τε ἀπογεισῶσαι τὰ ὑπὲρ τῶν ὀμμάτων, ὡς μηδ' ὁ ἐκ τῆς κεφαλῆς ἱδρὼς κακουργῇ· τὸ δὲ τὴν ἀκοὴν δέχεσθαι μὲν πάσας φωνάς, ἐμπίπλασθαι δὲ μήποτε.*

(*b*) *Καὶ ἕτερος εἶπε· Ζεύγη βοῶν ἠγόρασα πέντε, καὶ πορεύομαι δοκιμάσαι αὐτά· ἐρωτῶ σε, ἔχε με παρῃτημένον. Καὶ ἕτερος εἶπε· Γυναῖκα ἔγημα, καὶ διὰ τοῦτο οὐ δύναμαι ἐλθεῖν. Καὶ παραγενόμενος ὁ δοῦλος ἐκεῖνος ἀπήγγειλε τῷ κυρίῳ αὐτοῦ ταῦτα. Τότε ὀργισθεὶς ὁ οἰκοδεσπότης εἶπε τῷ δούλῳ αὐτοῦ· Ἔξελθε ταχέως εἰς τὰς πλατείας καὶ ῥύμας τῆς πόλεως, καὶ τοὺς πτωχοὺς καὶ ἀναπήρους καὶ χωλοὺς καὶ τυφλοὺς εἰσάγαγε ὧδε. Καὶ εἶπεν ὁ δοῦλος· Κύριε, γέγονεν ὡς ἐπέταξας, καὶ ἔτι τόπος ἐστί. Καὶ εἶπεν ὁ κύριος πρὸς τὸν δοῦλον· Ἔξελθε εἰς τὰς ὁδοὺς καὶ φραγμούς, καὶ ἀνάγκασον εἰσελθεῖν, ἵνα γεμισθῇ ὁ οἶκός μου.*

2. Decline the following combinations in singular, dual and plural—*οὗτος ὁ ἀνήρ; μείζων πόλις; ἀληθὲς ἔπος; σοφός τις πολίτης.*

3. Parse—*παρῄνει, εἰδότας, κληθείς, ἦν, ἀποβήσοιτο, ἔφη, δόξειεν, ποιοῦσι, ἐλθεῖν, φυλάξασθαι, ὄντα, γενέσθαι.*

4. Translate into Greek—

(*a*) Socrates was a great philosopher, but he said that he knew nothing.

(*b*) He always tried (*πειράομαι*) to make himself and others better and wiser men.

(*c*) Some of the Athenians thought (*νομίζω*) that he was corrupting (*διαφθείρω*) the youth (*νέοι*).

(*d*) The judges condemned (*κατακρίνω*) him and he was put to death.

5. Translate—

Καὶ ὁ Σωκράτης, "Εἰπέ μοι," ἔφη, "ὦ Εὐθύδημε, εἰς Δελφοὺς ἤδη πώποτε ἀφίκου;" "Καὶ δίς γε, νὴ Δία," ἔφη. "Κατέμαθες οὖν πρὸς τῷ ναῷ που γεγραμμένον τὸ 'Γνῶθι σαυτόν';" "Ἔγωγε." "Πότερον οὖν οὐδέν σοι τοῦ γράμματος ἐμέλησεν ἢ προσέσχες τε καὶ ἐπεχείρησας σαυτὸν ἐπισκοπεῖν ὅστις εἴης;" "Μὰ Δί', οὐ δῆτα," ἔφη, "καὶ γὰρ δὴ πάνυ τοῦτό γε ᾤμην εἰδέναι· σχολῇ γὰρ ἂν ἄλλο τι ᾔδειν εἴγε μηδ' ἐμαυτὸν ἐγίγνωσκον."

27*th March*, 1891.

1. Translate (*a*) *ἀλλ' οὐ μὴν Θρυπτικός γε οὐδὲ ἀλαζονικὸς ἦν οὔτ' ἀμπεχόνῃ, οὔθ' ὑποδέσει, οὔτε τῇ ἄλλῃ διαίτῃ. οὐ μὴν οὐδ' ἐρασιχρημάτους γε τοὺς συνόντας ἐποίει. τῶν μὲν γὰρ ἄλλων ἐπιθυμιῶν ἔπαυε, τοὺς δὲ ἑαυτοῦ ἐπιθυμοῦντας οὐκ ἐπράττετο χρήματα. τούτου δ' ἀπεχομένους ἐνόμιζεν ἐλευθερίας ἐπιμελεῖσθαι· τοὺς δὲ λαμβάνοντας τῆς ὁμιλίας μισθὸν ἀνδραποδιστὰς ἑαυτῶν ἀπεκάλει, διὰ τὸ ἀναγκαῖον αὐτοῖς εἶναι διαλέγεσθαι παρ' ὧν ἂν λάβοιεν τὸν μισθόν.*

(*b*) *οἴει δ' ἂν τοὺς θεοὺς τοῖς ἀνθρώποις δόξαν ἐμφῦσαι, ὡς ἱκανοί εἰσιν εὖ καὶ κακῶς ποιεῖν, εἰ μὴ δυνατοὶ ἦσαν; καὶ τοὺς ἀνθρώπους ἐξαπατωμένους τὸν πάντα χρόνον οὐδέ ποτ' ἂν αἰσθέσθαι; οὐχ ὁρᾷς, ὅτι τὰ πολυχρονιώτατα καὶ σοφώτατα τῶν ἀνθρωπίνων, πόλεις καὶ ἔθνη, θεοσεβέστατά ἐστιν, καὶ αἱ φρονιμώταται ἡλικίαι θεῶν ἐπιμελέσταται;*

(*c*) *καὶ στᾶσα παρὰ τοὺς πόδας αὐτοῦ ὀπίσω, κλαίουσα ἤρξατο βρέχειν τοὺς πόδας αὐτοῦ τοῖς δάκρυσι, καὶ ταῖς θριξὶ τῆς κεφαλῆς αὐτῆς ἐξέμασσε καὶ κατεφίλει τοὺς πόδας αὐτοῦ, καὶ ἤλειφε τῷ μύρῳ. Ἰδὼν δὲ ὁ Φαρισαῖος ὁ καλέσας αὐτὸν, εἶπεν ἐν ἑαυτῷ, λέγων· οὗτος, εἰ ἦν προφήτης, ἐγίνωσκεν ἂν τίς καὶ ποταπὴ ἡ γυνὴ ἥτις ἅπτεται αὐτοῦ.*

(*d*) *Ἐγὼ γὰρ δώσω ὑμῖν στόμα καὶ σοφίαν ᾗ οὐ δυνήσονται ἀντειπεῖν οὐδὲ ἀντιστῆναι πάντες οἱ ἀντικείμενοι ὑμῖν· καὶ θρὶξ ἐκ τῆς κεφαλῆς ὑμῶν οὐ μὴ ἀπόληται· ἐν τῇ ὑπομονῇ ὑμῶν κτήσασθε τὰς ψυχὰς ὑμῶν· τότε οἱ ἐν τῃ Ἰουδαίᾳ φευγέτωσαν εἰς τὰ ὄρη καὶ οἱ ἐν μέσῳ αὐτῆς ἐκχωρείτωσαν· καὶ οἱ ἐν ταῖς χώραις εἰσερχέσθωσαν εἰς αὐτήν.*

2. In (*c*) and (*d*) parse *ἤρξατο, θριξὶ, κατεφίλει, ἀντειπεῖν, ἀντιστῆναι, ἀπολήται, κτήσασθε, εἰσερχέσθωσαν*, giving the First Person Singular Present Indicative and Future Indicative of the Verbs.

3. Decline in the Singular *μοῖρα, νεώς, πίστις*; in the Dual *πολύς, μέγας*; and in the Plural *ὄρος, λέων, χαρίεις*, giving all the genders of the Adjectives.

4. Compare *σοφός, κακός, εὐδαίμων, ἄνω*, and give the Greek for 37, sixteenth, ten times, the same man, the man himself.

5. Translate into Greek—

(*a*) My father is taller (*μέγας*) than your brother.

(*b*) The walls (*τείχισμα*) of the city are strong (*ἰσχυρός*).

(*c*) The men wounded (τιτρώσκω) the women with their swords.

(*d*) The army came to (παρὰ) a large and deep (βαθύς) river.

(*e*) If you had come on the third day, you would have seen (ὁράω) the battle (μάχη).

FRENCH.

2nd October, 1890.

1. Translate—

(*a*) Ce qu'on appelle union dans un corps politique, est une chose très équivoque ; la vraie est une union d'harmonie, qui fait que toutes les parties, quelque opposées qu'elles nous paroissent, concourent au bien général de la société, comme les dissonances dans la musique concourent à l'accord total. Il peut y avoir de l'union dans un État où l'on ne croit voir que du trouble, c'est à dire, une harmonie d'où résulte le bonheur qui seul est la vraie paix : il en est comme des parties de cet univers, éternellement liées par l'action des unes et la reaction des autres.

(*b*) Ceux qui liront l'histoire de Pachymere connoîtront bien l'impuissance où étoient et où seront toujours les théologiens par eux-mêmes d'accommoder jamais leurs différends. On y voit un empereur qui passe sa vie à les assembler, à les écouter, à les rapprocher ; on voit de l'autre une hydre de disputes qui renaissent sans cesse ; et l'on sent qu'avec la même méthode, la même patience, les mêmes espérances, la même envie de finir, la même simplicité pour leurs intrigues, le même respect pour leurs haines, ils ne se seroient jamais accommodés jusqu'à la fin du monde.

2. What is the plural of—*carnaval*, *animal*, *caillou*, *trou*, *corail*, *détail ?*

3. Give the feminine of—*faux*, *discret*, *muet*, *las*, *flatteur*. Compare *bon* and *mauvais*.

4. Give the French for—*we shall have had ; he should sell ; they finished ; you were speaking ; we were owing ; they were selling.*

5. Give the first person singular and plural of the present subjunctive of—*aller*, *pouvoir*, *vouloir*, *savoir*.

6. Translate into French :—(*a*) October 2nd 1890. (*b*) It was in vain for him to run. (*c*) Some one asked Diogenes at what hour one ought to dine. He replied, "If you are rich, when you wish ; if you are poor, when you can."

7. Translate into English :—

Madame du Deffant était la personne la plus égoïste que l'on connût. Un jour plusieurs visites arrivèrent à la fois chez elle ; elle était couchée. On se plaignit en entrant de la fraîcheur de la chambre : "Comment" dit-elle "il fait donc bien froid ?" On l'assura qu'il gelait ; alors madame sonna précipitamment : on était charmé, on crut qu'elle allait demander du bois ; point de tout : "Apportez-moi," dit-elle, "un autre couvre-pied." Après avoir donné cet ordre, elle parla d'autre chose.

26th March, 1891.

1. Translate :—

(*a*) Bientôt la cupidité des particuliers *acheva* d'enlever ce qui avait échappé à l'avarice publique. Les magistrats et les gouverneurs *vendaient*

aux rois leurs injustices. Deux compétiteurs se ruinaient à l'envi, pour acheter une protection toujours douteuse contre un rival qui n'était pas entièrement épuisé; car on n'avait pas même cette justice des brigands, qui portent une certaine probité dans l'exercice du crime. Enfin les droites légitimes ou usurpés ne se soutenant que par l'argent, les princes pour en avoir dépouillaient les temples, confisquaient les biens des plus riches citoyens; on *faisait* mille crimes, pour donner aux Romains tout l'argent du monde. Mais rien ne servit mieux Rome que le respect qu'elle imprima à la terre; elle *mit* d'abord les rois dans la silence et les rendit comme stupides; il ne s'agissait pas du dégré de leur puissance mais leur personne propre était attaquée; risquer une guerre, c'était s'exposer à la captivité, à la mort, à l'infamie du triomphe.

(*b*) Voici une étrange contradiction de l'esprit humain; les ministres de la religion chez les premiers Romains n'étant pas *exclus* des charges et de la société civile, s'embarrassèrent peu de ses affaires; lorsque la religion chrétienne fut établie, les ecclésiastiques, qui étaient plus séparés des affaires du monde s'en *mêlèrent* avec modération; mais lorsque les moines furent le seul clergé, ces gens, destinés par une profession plus particulière à fuir et à craindre les affaires, embrassèrent toutes les occasions qui *purent* leur y donner part; ils ne cessèrent de faire du bruit par-tout et d'agiter ce monde qu'ils avaient quitté.

2. In (1) parse the words in italics. Conjugate and give the 1st Pers. Sing. Pres. Indic. and Past Def. of *naître*, *dire*, *tenir*, *vivre*, *savoir*.

3. Give the Gender of *dent*, *maison*, *mer*, *fauteuil*, *époque*; the Plural of *gentilhomme*, *caillou*, *émail*, *œil*, *nez*; and the Feminine of *roux*, *attentif*, *inquiet*, *muet*, *épais*.

4. Write out the Pres. Indic. of *aller*, the Fut. Indic. of *voir*, the Pres. Condit. of *vouloir*, and the Imperative of *suivre*.

5. Give the English of *aïëux*, *aieuls*, *cela va sans dire*, *aller à pied*, *il se peut*, *faire peur*; and the French for *eight and three quarters*, *it is cold*, *do not give it to him*, *he had just gone away*, *he had gone away*.

6. Translate into French:—

Henceforward the life of the Emperors was more certain. It became possible for an Emperor to die in his bed, and this seems to have sweetened (*adoucir*) their manners a little, for they no longer shed (*verser*) their subjects' blood with the same fierceness. But inasmuch as their immense power had to overflow (*déborder*) somewhere, a new species of tyrant came into being, and the vices of a weak nature took the place of boldness in the conception of and impetuosity in the execution of bad actions.

GERMAN.

4th October, 1890.

1. Translate—

Gross ist in Unterwalden meine Freundschaft,
Und jeder wagt mit Freuden Leib und Blut,
Wenn er am andern einen Rücken hat
Und Schirm.—O fromme Väter dieses Landes!
Ich stehe, nur ein Jüngling, zwischen euch,
Den Vielerfahrnen—meine Stimme muss

Bescheiden schweigen in der Landsgemeinde.
Nicht, weil ich jung bin und nicht viel erlebte,
Verachtet meinen Rath und meine Rede;
Nicht lüstern jugendliches Blut, mich treibt
Des höchsten Jammers schmerzliche Gewalt,
Was auch den Stein des Felsen muss erbarmen.
Ihr selbst seid Väter, Häupter eines Hauses,
Und wünscht euch einen tugendhaften Sohn,
Der eures Hauptes heil'ge Locken ehre,
Und euch den Stern des Auges fromm bewache.

2. Decline in the singular and plural—*der Staat*, *das gute Herz*, *mein bester Freund*.

3. What are the two forms of the superlative degree in German? Give the rule regarding their use and compare—*edel*, *wenig*, *bald*, *kurz*.

4. Give the third person singular of the present, past, and perfect of—*sagen*, *tragen*, *denken*, *halten*, *leiten*, *bleiben*.

5. What is the German for—*1313*, *half-an-hour*, *two-thirds*, *half-past twelve*.

6. Translate into German—

There were once three students who crossed the Rhine and came to an inn (*Gasthof*) where they were accustomed (*pflegen*) to stay. And as they went in, the hostess (*Wirthin*) came to meet them and asked what they would have. "Beer and wine," answered they, "and your little daughter we should also like to see." "Fresh beer and clear wine you can indeed have; but my daughter is no longer living; here she lies upon the bier" (*Bahre*).

7. Translate into English—

Und bei des nächsten Morgens Lichte,
Da tritt mit fröhlichem Gesichte
Ein Fischer vor den Fürsten hin:
"Herr, diesen Fisch hab' ich gefangen,
Wie keiner noch in's Netz gegangen,
Dir zum Geschenke bring' ich ihn."

Und als der Koch den Fisch zertheilet,
Kommt er bestürzt herbeigeeilet
Und ruft mit hocherstauntem Blick:
"Sieh, Herr, den Ring, den du getragen,
Ihn fand ich in des Fisches Magen,
O, ohne Grenzen ist dein Glück."

March 28th, 1891.

1. Translate—

(1) Vor dieser Linde sass ich jüngst, wie heut
Das schön Vollbrachte freudig *überdenkend*
Da kam daher von Küssnacht, seiner *Burg*,
Der Vogt mit seinen Reisigen *geritten;*
Vor diesem Hause hielt er wundernd an;
Doch ich *erhob* mich schnell, und unterwürfig,
Wie sich's gebührt, trat ich dem Herrn entgegen,

Der uns des Kaisers richterliche Macht
Vorstellt im Lande.
2) Nicht in ohnmächt'gen Thränen
Goss ich die Kraft des heissen Schmerzens aus,
In tiefer Brust, wie einen theuren Schatz,
Verschloss ich ihn und dachte nur auf Thaten.
Ich *kroch* durch alle Krümmen des Gebirgs,
Kein Thal war so versteckt, ich späht' es aus;
Bis an der Gletscher eisbedeckten ***Fuss***
Erwartet ich und fand bewohnte Hütten,
Und überall, wohin mein Fuss mich trug,
Fand ich den gleichen Hass der Tyrannei.
(3) Komm du hervor, du Bringer bittrer *Schmerzen*,
Mein theures Kleinod jetzt, mein höchster Schatz—
Ein Ziel will ich dir geben, das bis jetzt
Der frommen Bitte undurchdringlich war—
Doch dir soll es nicht widerstehn.—Und du,
Vertraute *Bogensehne*, die so oft
Mir treu gedient hat in der Freude Spielen,
Verlass mich nicht im fürchterlichen Ernst!

2. In (1) parse the words in Italics, giving the cases of the Nouns and conjugating the Verbs.

3. Decline in the Singular *ein berühmter Graf*, and in the Singular and Plural *der goldne Sporn* and *kurze Schlacht*.

4. Distinguish between *die Banken* and *die Bänke; ein anderer Teller* and *noch ein Teller; unser* and *der unsrige; Jemand* and *Niemand; lassen Sie uns singen* and *es lässt sich nicht thun*.

5. Give the German for *the ten thousandth, on the 10th of May, a quarter to three, yesterday morning, three and a half miles, how do you do?*

6. Translate into German—One day there was a dispute (Streit, *m.*) between an ox and an ass (as to) who had most wisdom (Weisheit). Neither was willing to yield (weichen) to the other, but at last they agreed (übereinkommen) that the lion if he were willing should decide (entscheiden) the dispute. So the two came to the throne of the king of beasts, who for a long time looked down upon the pair with a noble scorn (Hohn, *m.*), and then he said 'you are both fools.' Both looked at him and went away.

HIGHER MATHEMATICS.

4th October, 1890.

1. If a straight line be divided into any two parts, the sum of the squares on the whole line and on one of the parts is equal to twice the rectangle contained by the whole and that part together with the square on the other part.

2. Describe a circle to touch one side of a triangle and the other two sides produced.

3. Parallelograms which are equiangular to one another have to one another the ratio which is compounded of the ratios of their sides.

4. Simplify $\frac{a^3}{(a-b)(a-c)}+\frac{b^3}{(b-c)(b-a)}+\frac{c^3}{(c-a)(c-b)}$.

5. Find the highest common factor of

$$mn(x^2+y^2)+xy(m^2+n^2) \text{ and } mn(x^3+y^3)+xy(m^2y+n^2x).$$

6. Solve the equations—

$$5x^2+2xy-2y^2=22, \qquad 3x^2-4y^2=8.$$

7. Two passengers, who have together 360 lbs. of luggage, are charged 3s. 4d. for excess above the weight allowed free: if one passenger had taken the whole luggage he would have been charged 5s. 5d. What weight is allowed free?

8. Trace the changes in the value of the cosine of an angle as the angle increases from 0° to 180°. Also find the other trigonometric ratios when the cosine is ·23.

9. Show that $\cos(x+y)=\cos x \cos y - \sin x \sin y$, all the angles x, y, and $x+y$ being supposed less than 90°.

Find a value of x which will satisfy the equation

$$4 \cos 2x - 3 \cos x = 1.$$

10. Prove that, with the usual notation for a triangle,

$$\tan \tfrac{1}{2}A = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}}.$$

The sides of a triangle are 45, 50, 55: find the logarithm of the tangent of half the least angle, being given

$$\log 2 = \cdot 30103, \qquad \log 3 = \cdot 47712.$$

28th March, 1891.

1. Show how to circumscribe a regular pentagon about a given circle.

2. Triangles, which are equal in area and which have one angle of the one equal to one angle of the other, have their sides about the equal angles reciprocally proportional.

3. In a right-angled triangle any rectilineal figure described on the hypotenuse is equal to the sum of the two similar and similarly described figures on the sides containing the right angle.

4. Simplify $\dfrac{a^3}{(a-b)(a-c)}+\dfrac{b^3}{(b-c)(b-a)}+\dfrac{c^3}{(c-a)(c-b)}$.

5. Solve the equations :—$3x^2-4y^2=12$, $4x^2-7xy+3y^2=7$.

6. Solve, verifying your result :—

$$\sqrt{(12x-3)}-\sqrt{(x+2)}-\sqrt{(7x-13)}=0.$$

7. If 40 minutes would be saved in a journey by increasing the rate of the train by five miles an hour, and 1 hour be lost by diminishing it by the same amount, find the rate of the train and the length of the journey.

8. Define the "tangent" of an angle and find all the angles less than 90° satisfying the equation

$$\tan^5 A - 4\tan^3 A + 3\tan A = 0.$$

9. Prove the formula which gives $\cos(A-B)$ in terms of the sines and cosines of A and B.

Find the simplest value of $\dfrac{\sin 3A+\sin 5A-\sin 4A}{\cos 3A+\cos 5A-\cos 4A}$.

10. Prove $\tan \dfrac{A}{2}=\sqrt{\dfrac{(s-b)(s-c)}{s(s-a)}}$ and write down the corresponding logarithmic equation.

NATURAL PHILOSOPHY.

4th October, 1890.

1. Define "specific heat." A pound of boiling water is allowed to cool down to 10° C.; if all the heat given out were employed in warming 40 pounds of air, initially at 0° C., to what temperature would it be raised? [Sp. heat of air = ·237.]

2. Explain what is meant by "latent heat." Find the result of mixing 3 lbs. of melting ice with 7 lbs. of water at 60° C.

3. Explain the statement "Joule's equivalent is 772." A leaden bullet of specific heat ·032 strikes against an iron target with a velocity of 600 feet per second. If the bullet falls dead, and the heat produced is equally divided between it and the target, find its rise of temperature.

4. State the rule for finding the velocity of sound in air from the height of the homogeneous atmosphere. Explain how and why the velocity varies with the temperature of the atmosphere. Does the result obtained by the rule differ much from the true value; and if so, why?

5. State the laws for the frequency of vibration of stretched strings. A string is 2 feet long and is stretched by a weight 900 times as great as its own: find the number of vibrations in a second.

6. Taking the velocity of sound as 1128 feet per second, find the length of wave if there are 94 vibrations per second.

28th March, 1891.

1. What relation exists between the temperature, pressure, and volume of a given quantity of gas? A cubic foot of air at 100° C. is cooled down to 50° C., and at the same time its pressure is trebled; determine its new volume.

2. Define "specific heat." A solid at a temperature of 100° C., weighing 45 oz., was dropped into 120 oz. of water at 15° C.; the temperature of the resulting mixture was 19·6° C. Find the specific heat of the solid, supposing all the heat lost by it to have been taken up by the water.

3. When the brake is applied to the wheels of a moving train it is found that the wheels become heated; account for this. A boy can do 1200 foot pounds of work per minute; supposing that the work is applied to heating water, find how many pounds of water would be raised from 0° C. to 100° C. in half an hour, the mechanical equivalent of heat being 1390 foot pounds per degree Centigrade.

4. How are the radiation, reflection, and absorption of heat related to one another? Will water boil as quickly in a bright metal kettle as in one blackened with use? Which will retain the heat the longer after they are removed from the fire?

5. Define "wave-length." Taking the speed of sound as 1120 feet per second, find the wave-length (*a*) if there be 280 vibrations per second; (*b*) if the period of the particles be $\frac{1}{440}$th of a second.

6. How could you illustrate the reflection of sound? A person is walking between two parallel walls which are near together, and hears a prolonged echo of each footstep; explain how the echo is produced.

7. In the case of an open organ pipe which is sounding its fundamental note, state clearly (1) in what manner and direction the air particles are moving; (2) how the wave in the pipe is produced.

8. What is the relation between the wave-length in air of a note and the length of the closed organ pipe which resounds to it?

LOGIC.

3rd October, 1890.

1. Distinguish Simple Apprehension, Judgment, Reasoning. What is meant by a "general idea or conception"?

2. How are propositions classified? Explain these terms, as applied to propositions—*Exclusive*, *essential*, *ampliative*, *modal*.

3. What is logical *Division?* State the rules of correct *Definition*.

4. Write out in letters the following moods:—*Ferio*, *Cesare*, *Disamis*, *Bramantip*, *Bokardo*. Reduce the last two.

5. Define a fallacy. Explain fully, stating the class to which each belongs—Fallacy of *Equivocation*, of *Division*, of *Many Questions*, *ignoratio elenchi*, *argumentum ad hominem*, *non sequitur*.

6. Discuss the validity of the following—

(*a*) Bad habits lead to crime; poverty leads to crime; therefore, poverty is a bad habit.

(*b*) The end of life is happiness; death is the end of life; therefore, death is happiness.

(*c*) My client's watch was stolen yesterday at four; the defendant was with him at the time; therefore, he is the thief.

7. Distinguish Induction and Deduction. What are the three steps in the Deductive method?

27th March, 1891.

1. Distinguish between a *science* and an *art*. How is Logic related to the other sciences?

2. What is a *term?* Define these terms—collective, abstract, negative, privative, absolute.

3. State and explain the general law that connects the *intension* of a term with its *extension*. Distinguish the meanings in intension and extension of—man, book, planet, religion.

4. What is a categorical proposition? Write out in letters the propositions A and O, A and E, A and I, and describe their relations.

5. What are the principal rules of the syllogism? Construct *one* valid syllogism in each of these moods—EIO, EAO, OAO. Reduce OAO.

6. Examine the following arguments, and, where invalid, state precisely the nature of the fallacy:—

(*a*) Good men write good books; this is a good book, and therefore its writer was a good man.

(*b*) Hunger waits on idleness; there is famine in Ireland; therefore the Irish have been idle.

(*c*) Your house has not been robbed, for I have never known your informant speak the truth.

(*d*) He is already rich and powerful, so that he cannot be guilty of usury and extortion.

7. State and illustrate the distinction between *à priori* and *à posteriori* knowledge.

MORAL PHILOSOPHY.

3rd October, 1890.

1. What, according to Mr. Spencer, is the ultimate aim of all systems of Ethics? and upon what cardinal ideas are they based? State precisely his view of the Intuitional Theory.

2. Distinguish *conduct* and *action*, and illustrate the connection between the evolution of structures and the evolution of conduct.

3. What is the function of industrialism in the advance of civilization? What are its limitations, and how is it supplemented?

4. Describe, from the standpoint of biology, the relations of pleasure and pain to welfare. What is the significance of those relations for Ethics?

5. "The sense of duty is transitory, and will diminish as fast as moralization increases." How does Mr. Spencer justify this conclusion?

6. "If the maxim 'Live for self' is wrong, so also is the maxim 'Live for others.'" Examine this with special reference to Mr. Spencer's criticism of the Greatest-Happiness Principle. What is the necessary compromise?

7. What is the general purpose of the 'Data of Ethics,' and how far is it achieved?

27th March, 1891.

1. "Conduct is a whole; and, in a sense, it is an organic whole." Explain this. To what extent does Ethics deal with the whole of Conduct?

2. What constitutes advance, and what perfection in the evolution of Conduct? How does Mr. Spencer show that "good" and "highly evolved," as applied to Conduct, are synonymous?

3. "Is life worth living?" What is meant by this question? What common postulate underlies the answers of the optimist and the pessimist?

4. What, according to Mr. Spencer, is the end of action? How is his position supported by the consideration of Conduct (1) from the *physical*, (2) from the *biological* standpoint?

5. State generally the distinction between Egoism and Altruism. How does the subordination of Egoism to Altruism become injurious to the individual and to society?

6. "Self-sacrifice is no less primordial than self-preservation." Explain this, and indicate some of the stages in the evolution of Altruism.

7. What is the Ethical significance of the variance in the standard of happiness? What inferences may be drawn from it regarding the humanity of the future?

II.—PROFESSIONAL EXAMINATIONS.

I.—FIRST PROFESSIONAL EXAMINATION.

CHEMISTRY.

6th October, 1890.

1. What are the composition and properties of bleaching powder, and how is it prepared? Explain the bleaching action of chlorine.

2. Explain the following terms—allotropy, isomorphism, nascent state, catalysis, dissociation. Give examples.

3. Compare nitrogen and phosphorus and their principal compounds.

4. How many litres of oxygen at 12° C. and 750 mm. pressure can be got by treating 100 grammes of manganese dioxide?

5. Describe the preparation and properties of urea.

6. State the relations between the atomic weights and the chemical properties of the elements.

7. Describe briefly the manufacture of (*a*) cast iron, and (*b*) bessemer steel. How do they differ in composition?

8. What is the action of sulphuric acid on the iodide, chlorate, bichromate, permanganate, and oxalate of potassium? Give equations.

B.Sc. candidates are required to answer 2, 5, 6, 7, 8.

BOTANY.

1st April, 1890.

1. Give a brief sketch of the physiological history of a typical, annual Phanerogam, from the germination of the seed to the ripening of the fruit.

2. Describe the structure, distribution, mode of multiplication, and function of chlorophyll corpuscles.

3. Explain the difference between a sexual and a vegetative mode of propagation of plants, and compare the vegetative reproduction in Marchantia, Polysiphonia, and Mucor.

4. State accurately how a flower differs from a foliage shoot: explain the terms cohesion, adhesion, and suppression of parts, giving instances.

5. Give a short account of the various modes of dispersion of seeds in plants, quoting examples of each.

Only FOUR *answers to be attempted by M.B. Candidates.*

6th October, 1890.

1. Give a concise account of the structure of a typical leaf of a Dicotyledon, pointing out how its structure is suited to its function.

2. Give a full description of the origin, structure, and economic importance of the specimen before you.

3. What are vessels?
Where do they occur?
How are they formed?
What is their use?
What are laticiferous vessels?
Name two plants of different natural orders in which they are present.

Answer each question in a single sentence.

4. Explain your reasons for holding that sexuality in plants is similar to that in animals.

5. Give an account of the life of a mould (*e.g.*, Aspergillus). Explain how it is nourished, and propagated. How would you make a pure culture of it?

Only FOUR *questions to be attempted by M.B. Candidates.*

NATURAL HISTORY.

1*st April*, 1890.

1. Indicate the chief structural differences between the ratitae and carinatae, and mention the birds belonging to the former.

2. Describe hydra, and mention how it differs from the protozoa on one hand and an actinia on the other.

3. Describe the branchiae heart and circulation of the lobster.

4. Mention methodically the bones of the pectoral girdle and fore limb of a reptile. How do they differ from those of bat and bird?

6*th October*, 1890.

1. Give the general characters of birds. What are the bird-like characters presented by the crocodilia and monotremata respectively?

2. Describe the nervous system and breathing organs of the lobster. How do the latter differ from those of a fish?

3. What sense organs are found among coelenterata?

4. Describe the nutrition of a colony of hydrozoa and of actinozoa.

5. What are the teeth of reptiles? where situated? and when absent how compensated?

6. Mention the chief groups of the mollusca and the character of the exterior in each.

7. Describe the test of a foraminifer, and mention the materials of which it may consist.

Do not attempt more than FIVE. *Nos.* 1 *and* 2, *and either* 3 *or* 4 *must be among the number.*

B.SC. CANDIDATES ARE NOT RESTRICTED TO FIVE.

II.—SECOND PROFESSIONAL EXAMINATION.

DESCRIPTIVE ANATOMY.

2nd April, 1890.

1. Describe the radio-carpal articulation, and the movements which this joint permits.
2. Describe the muscles of the tongue, extrinsic and intrinsic, and state the action of each.
3. Describe the ciliary processes of the eye, stating their position relatively to other parts.
4. Describe the tunica albuginea and the tunica vaginalis testis.

7th October, 1890.

1. Describe the different muscular parts which unite the humerus to the ulna.
2. Describe the microscopic structure of the textures entering into the formation of a synovial articulation.
3. Give a short account of the development of the heart.
4. Describe the cauda equina and its meninges.

INSTITUTES OF MEDICINE OR PHYSIOLOGY.

2nd April, 1890.

1. With regard to the bile, give an account (*a*) of its chemical composition; (*b*) the origin of its constituents; and (*c*) its physiological action in the intestinal canal.
2. Give an account of the innervation of the sub-maxillary gland, stating the results of experiment and the conclusions to be drawn regarding the influence of the nervous system on secretion.
3. Define "astigmatism," "presbyopia," "myopia," illustrating your answer by diagrams, and show how these optical defects may be remedied by lenses.
4. Describe the various changes that occur in a muscle when it contracts. Contrast muscular contraction with *rigor mortis*.
5. Explain fully what is meant by the expression that milk is a complete food.

Any FOUR *questions to be answered by M.B. Candidates. All of the same value.*

7th October, 1890.

1. Describe a uriniferous tubule, including its relations to the bloodvessels, and give an account of the functions of its various parts.
2. Give an account of the portal circulation, and point out wherein it differs from the circulation in other organs.

3. Describe minutely the spectrum of blood in different conditions, and show how the facts ascertained by a study of blood-spectra have explained partially the respiratory process.

4. What is a proteid? Give examples of proteids which are important as food, and state what happens to them during digestion.

5. Describe the structure of a nerve fibre. How would you classify nerves according to their function? Give the meanings of the terms you use.

III.—THIRD PROFESSIONAL EXAMINATION.

REGIONAL ANATOMY.

3rd April, 1890.

1. Describe the trunks by which the blood flows from the internal-jugular and subclavian veins to the heart, stating the structures with which they are in contact, and the veins which they receive.

2. Describe the vessels and nerves of the uterus and ovaries.

3. Describe the steps of a dissection to display the plantar arch of artery.

8th October, 1890.

1. Describe the relations of parts seen in a dissection of the dorsum of the foot.

2. Describe the steps of a dissection of the perinæum, made to show the membranous part of the urethra and rectal aspect of the prostate.

3. Decline the first part of the subclavian artery, and state the differences of its relations on the right and left side of the body.

MATERIA MEDICA AND THERAPEUTICS.

3rd April, 1890.

1. State the nature of biliary, lead, and renal colic, and give the treatment to be adopted in each form.

2. Enumerate all the preparations into which zinc or its salts enters, giving the dose of those used internally, and the strength of the preparations used externally.

3. Describe the action of digitalis upon the healthy heart and vessels, and explain how it acts beneficially upon the heart in valvular disease. Write a recipe for its use as a diuretic.

4. Indicate the errors and correct the following prescriptions :—℞ Liq. hydrarg. ʒii. Potass. iod. ℥i. Inf. cinchonae ad. ℥vi. ♏. ℞ Acid. sulph. dil. ʒii. Liquoris strychninae ʒiv. Aquae ad. ℥ii. ♏. A teaspoonful in water as directed. ℞ Potass. bicarb., ferri. sulph. aa gr.ii. pulv. tragacanth Q. S. Ft. pil.

8th October, 1890.

1. What skin eruptions may arise from the internal use of belladonna, quinine, arsenic, iodide of potassium, bromide of potassium, copaiba, and chloral hydrate?

2. What is iodoform? State how it is prepared. Describe its physical characters and physiological action, and mention the different affections for which it has been employed externally and internally in medicine. State its dose and preparations.

3. Describe the treatment to be adopted in acute pleurisy in its early stage, and after effusion has taken place.

Prescriptions to be written in abbreviated Latin.
Directions in English.

4. Write out a list of the preparations *bearing the name of Opium*, giving the composition, strength, and dose of each.

IV.—FINAL PROFESSIONAL EXAMINATION.

SURGERY.

9th July, 1890.

1. What surgical operations may be required for effusions into the pleura?

2. Describe the operation of tying the subclavian artery in the third part of its course, and state the anastomosis by which the circulation is afterwards carried on.

3. Describe the operation of enterotomy ("Nelaton's") in the right groin, and under what conditions it is performed.

4. What ulcers occur on the tongue, and how are they differentiated?

5. What are the more common dislocations of the femur, and how are they reduced by manipulation?

PRACTICE OF MEDICINE.

8th July, 1890.

1. Describe briefly the symptoms of Scarlet Fever, with the principal complications and sequelae.

2. Mention the causes, general symptoms, and physical signs of Tricuspid Regurgitation in its usual associations with other lesions.

3. State how Typhlitis, or Perityphlitis, may arise, what symptoms and complications may follow, and in what manner you would meet the indications for treatment.

4. A man, aged 48, apparently in good health, gradually develops left-sided hemiplegia, accompanied by ptosis of the right eye, with external strabismus, and loss of the pupil-reflex to light. Give the anatomical and pathological diagnosis, and state how you would treat the case.

N.B.—In the last two questions the prescriptions are to be written out as if for the chemist, with directions to the patient in English.

MIDWIFERY AND GYNÆCOLOGY.

9th July, 1890.

1. Give the causes and treatment of Post-partum Hæmorrhage, including the most reliable measures for its prevention.

2. Give in detail a statement of the duties of the accoucheur during the ten days immediately succeeding delivery.

3. Describe very shortly that Position of the Breech which occurs most frequently.

4. Enumerate the various Displacements of the Unimpregnated Uterus, and indicate the diagnosis and treatment of those in which the fundus is displaced backwards.

5. How would you distinguish between a partially inverted Uterus and a polypoid Myoma projecting into the vagina?

FORENSIC MEDICINE.

7th July, 1890.

1. Certain incised wounds being found upon a dead body, how might their appearance lead you to a diagnosis that they were produced—

(1) 36 hours before death,
(2) 2 ,, ,,
(3) 2 hours after death,
(4) 36 ,, ,, ?

2. Mention the signs and symptoms to which you would direct special attention in investigating and reporting upon a case of supposed criminal abortion. Indicate those upon which you would place most reliance.

3. If asked to examine and report upon a man proposing his life for insurance, state what (*a*) existing diseases, (*b*) pre-existing diseases, (*c*) family history, (*d*) occupation, (*e*) personal habits, would induce you to advise that the risk should be declined; and those, that it should be accepted at an increased premium.

4. Enumerate the plants indigenous to this country which are known to possess powerful poisonous properties. Select one, describing in detail the symptoms produced by it, and the treatment which you would adopt.

5. How may the presence of the following poisons be ascertained in organic mixtures, viz.:—

(1) Opium,
(2) Strychnia?

NOTE.—*Only* FOUR *questions to be answered, omit either number* 3 *or number* 4.

PATHOLOGY.

8th July, 1890.

1. What are twisting of the intestine and intussusception respectively? What are their common seats, and how are they brought about?

2. What are the characteristics of local tuberculosis of the kidney? What other localities are usually affected along with it, and why?

3. What are the fundamental histological changes in the bones in rickets, and what are the principal visible deformities in the long bones resulting from this disease?

4. Describe the characters of the bacillus tuberculosis, the actinomyces, the micrococcus erysipelatis, and the cholera bacillus of Koch. By what methods would you detect the presence of the tubercular bacillus in sputum and the micrococcus of erysipelas in the skin?

5. Chronic inflammation is accompanied by newformation of connective tissue and the coalescence of the new-formed tissue. Illustrate this in the case of the lungs, the heart, and the kidneys.

Only FOUR *questions to be answered.*

VI.—FOR DEGREES IN LAW.

I.—PRELIMINARY EXAMINATION FOR B.L.

a.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 323—336.)

b.—FRENCH.

(*a*) Translate into English :—

1. C'est une chose, moi, où je ne consentirai point. Les alliances avec plus grand que soi sont sujettes toujours à de fâcheux inconvénients. Je ne veux point qu'un gendre puisse à ma fille reprocher ses parents, et qu'elle ait des enfants qui aient honte de m'appeler leur grand'maman. S'il fallait qu'elle me vînt visiter en équipage de grand-dame, et qu'elle manquât par mégarde à saluer quelqu'un de quartier, on ne manquerait pas aussitôt de dire cent sottises. "Voyez-vous," dirait-on, "cette madame la marquise qui fait tant la glorieuse? c'est la fille de monsieur Jourdain, qui était trop heureuse, étant petite, de jouer à la madame avec nous. Elle n'a pas toujours été si relevée que la voilà, et ses deux grand-pères vendaient du drap auprès de la porte Saint-Innocent. Ils ont ammassé du bien à leurs enfants, qu'ils payent maintenant peut-être bien cher en l'autre monde; et l'on ne devient guère si riche à être honnêtes gens." Je ne veux point tous ces caquets; et je veux un homme qui m'ait obligation de ma fille, et à qui je puisse dire: Mettez-vous là, mon gendre, et dînez avec moi.

2. C'en est fait maintenant, pareils aux hirondelles,
Partez; qu'un même but vous retrouve fidèles.
Et moi, pourvu qu'en vos combats
De votre foi nul cœur ne doute
Et qu'un âme en secret écoute
Ce que vous lui direz tout bas;

Pourvu, quand sur les flots en vingt courants contraires
L'ouragan chassera vos voiles téméraires,
Qu'un seul ami, plaignant mon sort,
Vous voyant battus de l'orage,
Pose un fanal sur le rivage,
S'afflige et vous souhaite un port ;
D'un œil moins désolé je verrai vos naufrages.
Mais le temps presse, allez ! rassemblez vos courages ;
Il faut combattre les méchants.
C'est un sceptre aussi que la lyre !
Dieu, dont nos âmes sont l'empire,
A mis un pouvoir dans les chants.

3. Enfin l'éducation dans les monarchies exige dans les manières une certaine politesse. Les hommes nés pour vivre ensemble, sont nés aussi pour se plaire ; et celui qui n'observerait pas les bienséances, choquant tous ceux avec qu'il vivrait se décréditerait au point qu'il deviendrait incapable de faire aucun bien.

Mais ce n'est pas d'une source si pure que la politesse a coutume de tirer son origine. Elle naît de l'envie de se distinguer. C'est par orgueil que nous sommes polis ; nous nous sentons flattés d'avoir des manières qui prouvent que nous ne sommes pas dans la bassesse, et que nous n'avons pas vécu avec cette sorte de gens que l'on a abandonnés dans tous les âges.

4. Il avait toujours prétendu, malgré l'avis des généraux allemands, que l'infanterie pouvait résister en pleine campagne ; même sans chevaux de frise, à la cavalerie ; il en osa faire ce jour-là l'experience contre cette cavalerie victorieuse, commandée par deux rois, et par l'élite des generaux suédois. Il se posta si avantageusement qu'il ne put être entouré. Son premier rang mit le genou en terre ; il était armé de piques et de fusils ; les soldats extremement serrés présentaient aux chevaux des ennemis une espèce de rampart hérissé de piques et de baïonnettes ; le second rang, un peu courbé sur les épaules du premier, tirait par-dessus : et le troisième debout faisait feu en même temps derrière les deux autres. Les Suédois fondirent avec leur impétuosité ordinaire sur les Saxons, qui les attendirent sans s'ébranler ; les coups de fusil effarouchèrent les chevaux qui se cabraient au lieu d'avancer.

5. Les Dieux grecs sont partis, le temple du monde a perdu les grandes images qui le décoraient, mais en partant ils l'ont consacré. Les éléments qu'ils personnifiaient, les forces actives dont ils étaient la conscience, se resouviennent d'avoir été divins avec eux. Les traits humains et maternels de Cérès se sont perdus dans la face vaste, vague, indifférente de la Nature productrice ; sa personnalité religieuse l'anime toujours d'un souffle affaibli. Aujourd'hui encore, dans quelques coins des campagnes, de petites fêtes locales, payennes sans le savoir, réveillent au temps de la moisson, son culte aboli. Le geste de semeur, épanchant le grain par larges secousses, semble la bénédiction de son prêtre. De saison en saison, sa légende, si intimement liée à l'histoire naturelle du sol, déroule ses épisodes invariables. Chaque hiver replonge Proserpine, avec la végétation mourante, dans l'abîme obscur de la terre ; chaque printemps la ressuscite couronnée de fleurs. Eternellement la nature répète le drame sacré d'Eleusis.

(*b*) Translate into French :—

But of all the plagues which infested Spain at this time the Inquisition was by far the worst. In its hand to hand struggle with the paganism of Africa, Spanish Catholicism had become tinged with its exterminating character, and had reared anew to Christ the altar of Moloch. Its orthodoxy surpassed that of Rome, and the Holy Office braved the warnings and admonitions of the Papal power. The ravages of the Inquisition were like those of a never ceasing fire. In eighteen years 10,000 victims were burned alive, and 7000 in effigy. In the year 1483, 5000 empty houses were counted in Andalusia, and the four statues of the Apostles that stood in the central square of Seville were blackened with the smoke of the ever-burning fires.

(*c*) 1. Conjugate and give the First Pers. Sing. Pres. Indic. and Past Def. of *souffrir*, *croire*, *peindre*, *bouillir*, *savoir*, *pouvoir*, *avancer*, *concevoir*, *naître*, *lire*, *coudre*, *corriger*.

2. Mention some of the idiomatic uses of *faire*, *aller*, *venir ;* and distinguish between *convenir* used with *avoir* and *être*.

3. What is the signification of the *Circumflex Accent* in French? Illustrate by means of examples: *mur* = *murus* = *wall* ; *murs* = *muri* = *walls*. Explain the absence of the *s* in the one case and its presence in the other.

4. What were the results of the battles of *Bouvines*, *Granson*, *Pavia*, *Dreux*, *Malplaquet*, *Fontenoy*, *Sedan?* Give some account of the *Edict of Nantes*, *the Fronde*, *the Mountain*.

5. Give some particulars of the different occasions on which a Republic has been established in France.

6. What is the meaning of the *Pléiade* in French Literature?

7. Give some account of the Life and Works of *Montaigne* and *Voltaire*.

C.—GERMAN.

(*a*) Translate into English :—

1. Unterdessen rückte der Zug immer näher, und die Dunkelheit der Nacht erhöhte noch den ausserordentlichen Anblick. So weit das Auge dem Strome folgen konnte, war Alles Feuer, und die Brander warfen so starke Flammen aus, als ob sie selbst in Feuer aufgingen. Weit hin leuchtete die Wasserfläche ; die Dämme und Basteien längs dem Ufer, die Fahnen, Waffen und Rüstungen der Soldaten, welche sowohl hier als auf der Brücke in Parade standen, glänzten im Widerscheine. Mit einem gemischten Gefühle von Grauen und Vergnügen betrachtete der Soldat das seltsame Schauspiel, das eher einer Fete als einem feindlichen Apparate glich, aber gerade wegen dieses sonderbaren Contrastes der äussern Erscheinung mit der innern Bestimmung die Gemüther mit einem wunderbaren Schauer erfüllte.

2. Also sprachen die Männer sich unterhaltend. Die Mutter
Ging indessen, den Sohn erst vor dem Hause zu suchen,
Auf der steinernen Bank, wo sein gewöhnlicher Sitz war.
Als sie daselbst ihn nicht fand, so ging sie, im Stalle zu schauen,
Ob er die herrlichen Pferde, die Hengste, selber besorgte,
Die er als Fohlen gekauft und die er niemand vertraute.

Und es sagte der Knecht: Er ist in den Garten gegangen.
Da durchschritt sie behende die langen doppelten Höfe,
Liess die Ställe zurück und die wohlgezimmerten Scheunen,
Trat in den Garten, der weit bis an die Mauern des Städtchens
Reichte, schritt ihn hindurch und freute sich jeglichen Wachsthums,
Stellte die Stützen zurecht, auf denen beladen die Aeste
Ruhten des Apfelbaums, wie des Birnbaums laftende Zweige,
Nahm gleich einige Raupen vom kräftig strotzenden Kohl weg;
Denn ein geschäftiges Weib thut keine Schritte vergebens.
Also war sie an's Ende des langen Gartens gekommen,
Bis zur Laube, mit Geisblatt bedeckt.

3. Unsere Vorfahren zogen fleissig wider den Türken; und das sollten wir noch thun, wenn wir ehrliche Kerls und gute Christen wären. Freilich begreife ich wohl, dass ein Feldzug wider den Türken nicht halb so lustig seyn kann, als einer wider den Franzosen; aber dafür muss er auch desto verdienstlicher seyn, in diesem und in jenem Leben. Die Türken haben dir Alle Säbels, mit Diamanten besetzt—

JUST. Um mir von so einem Säbel den Kopf spalten zu lassen, reise ich nicht eine Meile.

4. Aergerniss und verbissene Wuth hatten meine ganze Seele umnebelt; die Liebe selbst, in dem vollesten Glanze des Glucks, konnte sich darin nicht Tag schaffen. Aber sie sendet ihre Tochter, das Mitleid, die mit dem finstern Schmerze vertrauter, die Nebel zerstreut, und alle Zugänge meiner Seele den Eindrücken der Zärtlichkeit wieder öffnet. Der Trieb der Selbsterhaltung erwacht, da ich etwas Kostbareres zu erhalten habe, als mich, und es durch mich zu erhalten habe.

5. Nun, wahrlich! darauf ist er nicht bereitet.
Er hätte jedes Hinderniss besiegt,
Und in dem eignen Willen seiner Tochter
Sollt' ihm der neue Streit entstehn? Kind, Kind!
Noch hast du nur das Lächeln deines Vaters,
Hast seines Zornes Auge nicht gesehen.
Wird sich die Stimme deines Widerspruchs,
Die zitternde, in seine Nähe wagen?
Wohl magst du dir, wenn du allein bist, grosse Dinge
Vorsetzen, schöne Rednerblumen flechten,
Mit Löwenmuth den Taubensinn bewaffnen.
Jedoch versuch's! Tritt vor sein Auge hin,
Das fest auf dich gespannt ist, und sag' nein!
Vergehen wirst du vor ihm, wie das zarte Blatt
Der Blume vor dem Feuerblick der Sonne.

(*b*) Translate into German:—

"I can easily conceive," said the mother, "how these things should stick so firmly in your mind: I well remember what an interest you took in them; how you stole the little book from me, and learned the whole piece by heart. I first noticed it one evening when you had made a Goliath and a David of wax; you set them both to declaim against each other, and at length gave a deadly stab to the giant, fixing his head, stuck upon a large pin, in little David's hand. I then felt such

a motherly contentment at your fine recitation and good memory that I resolved to give you up the whole wooden troop to your own disposal. I did not then foresee that it would cause me so many heavy hours."

(*c*) 1. How is the English Present Participle generally represented in German? Give examples.

2. What cases are governed by the following Verbs and Prepositions:—*gefallen*, *begegnen*, *erinnern*, *gehorchen*, *loben* and *anstatt*, *während*, *durch*, *hinter*, *seit*.

3. How is the Comparative Degree formed in German? Give examples.

4. Give some account of the following persons:—*Clovis*, *Frederick Barbarossa*, *Wallenstein*, *Prince Eugene of Saxony*, *Metternich*, *Blücher*.

5. What do you know of the following?—*Hanseatic League*, *Diet of Worms*, *Pragmatic Sanction*; the *Peaces of Westphalia*, *Utrecht*, *Presburg*, *Prague*; the *Battles of Sempach*, *Lützen*, *Kollin*, *Wagram*, *Leipzig*, *Königgrätz*.

6. What do you know about the *Nibelungen Lied*, *Reinecke Fuchs*, *Narrenschiff*, *Wallenstein*, *Wilhelm Meister*, *Der Will als Wille und Vorstellung*, *Laocoon*, *Undine*, *Messias*, *Don Carlos*.

7. Give some account of the life and writings of *Jean Paul Richter*, *Wieland*, *Heine*, and more fully of *Goethe*.

II. LAW EXAMINATIONS FOR LL.B. AND B.L.

1. CIVIL LAW.

1. Give an account of the influence of the judicial administration of the *praetor peregrinus* on Roman jurisprudence.

2. What was the Law of Citations?

3. Explain in what ways the *patria potestas* might be ended.

4. Enumerate the different classes of *libertini* which existed under the emperors prior to Justinian, and explain the difference between them.

5. What was meant by the terms *bona fide* and *ex justa causa* as applied to the possession necessary to the acquisition of things by *usucapio*?

6. Give an account of the modes in which obligations might be extinguished.

7. Classify servitudes, and give an example of each class.

8. Explain the terms *peculium castrense*, *peculium quasi castrense*, and *peculium adventitium*.

9. By whom and in what circumstances might the action called *Querela inofficiosi testamenti* be maintained?

10. Explain the distinction between
    (1) *actio in rem* and *actio in personam*.
    (2) *actio directa* and *actio utilis*.
    (3) *actio in jus concepta* and *actio in factum concepta*.

11. What were the *actio Publiciana* and the *actio Pauliana*? State in each case whether it was an action *in jus concepta* or *in factum concepta*.

2. LAW OF SCOTLAND.

NOTE.—*Only* TWELVE *questions are to be attempted.*

1. What are the principal collections of Scots decisions?

Indicate shortly the authority of (1) Text writers, (2) English cases, (3) American cases, (4) The Civil Law, and (5) Continental commentators thereon.

2. Give the leading rules as to offer and acceptance.

3. In the sale of goods what is the warranty of (1) title and (2) quality?

Can one not the owner sell goods?

4. Explain and illustrate the distinction between general and qualified acceptance of a bill, and state the effect of each.

5. Give an outline of the law as to notice of dishonour of bills.

6. Distinguish pledge, hypothec, lien, retention.

7. What prescription applies in the following cases:—(1) the sale of a horse not delivered, (2) the sale of a horse delivered but not paid, (3) a hotel bill, (4) a cheque payable on demand, and (5) a contract to build a house?

8. What rights may individuals and the public respectively have in navigable lakes?

9. State what leases are and what are not transmissible.

10. Explain fully and illustrate the doctrine of representation in Succession.

11. Explain the general effect of a post-nuptial compared with an ante-nuptial Marriage Contract as regards (1) the spouses, (2) the children, and (3) third parties.

12. Illustrate and explain—

(*a*) Res perit domino.

(*b*) Traditionibus non nudis pactis transferuntur rerum dominia.

13. Explain the phrases—Approved bill, negotiated bill, F.O.B., kindly tenants, expiry of the legal.

14. Define Theft, and specify the chief aggravations of it.

15. What is meant by saying that discussions on relevancy have been abolished by the Criminal Procedure Act, 1887? Is the statement true?

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3. CONVEYANCING.

(FOURTEEN *only of the questions to be answered.*)

1. What is meant by (*a*) *dominium directum*, (*b*) *dominium utile*, (*c*) splitting the superiority, (*d*) interjecting a superior, (*e*) taxed entry, (*f*) duplicand, (*g*) consolidation, and (*h*) how could consolidation be effected (1) prior to 1874, and (2) subsequent to 1874?

2. State (*a*) what is meant by a bounding charter and a non-bounding charter respectively; (*b*) how a bounding charter may be constituted; (*c*) what rights may, by prescription, be acquired under a bounding charter and a non-bounding charter respectively; and (*d*) what rights may, by prescription, be acquired over the lands contained in a bounding charter.

3. Give the substance of (1) the old form of a Precept of Sasine, and (2) the short form introduced by the Act of 1845.

4. Trace the progress of entry with the superior.

5. What is passive representation? What were the passive titles?

6. What is the difference in form between a disposition of superiority and a disposition of property?

7. State fully the rule with regard to the deduction of teinds in fixing a composition payable by a singular successor. Give the rules laid down by the Acts of 1874 and 1887 for payment of Casualties (*a*) by a body of Trustees, and (*b*) by a Corporation.

8. How would you complete the title of the general disponee of a person who died infeft (1) in 1840, (2) in 1860, and (3) in 1880?

9. *A*, duly entered, dispones to *B*, *a me vel de me*. *B*, infeft, but unconfirmed, dies intestate, succeeded by *C*. How would you complete *C*'s title (*a*) in 1840, (*b*) in 1850, and (*c*) in 1890, (1) where the lands are held of the Crown, and (2) where they are held of a subject superior?

10. Explain what is meant by fiduciary fee; and give an example (1) where the fee is in the parent, and (2) where the fee is in a child or children. Complete the title in both cases.

11. Specify the legal effect (*a*) as regards the granter, and (*b*) as regards the grantee (1) in the case of a conveyance *ex facie* absolute and followed by infeftment, but qualified by a back bond either recorded or unrecorded, declaratory of the trust purposes; and (2) in the case of a conveyance which *in gremio* contains the trust purposes, and is followed by infeftment. Give reasons.

12. Prepare a memorandum for search in the Property and Personal Registers, the title standing thus:—

(1) P. of C. C. *A* to *B*, dated 1st July, 1849.
(2) I. of S. thereon in favour of *B* recorded P. R. of S., 5th July, 1849.
(3) Disposition *B* to *C*, dated and recorded P. R., 10th February, 1864.
(4) T. D. and S. by *C* in favour of *D*, *E*, and *F*, as trustees, dated 1st September, 1881.
(5) Not. Inst. in favour of *D*, *E*, and *F*, recorded G. R., 7th June, 1890.

Acting for the trustees—who have sold the property—what steps must you take with reference to the superior (*a*) in the interest of your clients and (*b*) to satisfy the purchaser?

13. What is meant by (*a*) Institution; (*b*) Substitution; (*c*) Conditional Institution; and (*d*) Conditional Substitution? and give an illustration of each.

14. Can one feuar enforce the conditions of the feu against another feuar?

15. Give the rules for determining in whom is the fee in destinations expressed to husband and wife in conjunct fee and liferent.

16. State shortly the facts of, and the law applied in, any two of the following cases:—

(*a*) Frog's Creditors *v.* His Children.
(*b*) Dundas *v.* Drummond.
(*c*) Munro *v.* Munro.
(*d*) Simpson *v.* Barclay.

(*e*) Campbell *v.* Campbell, 1880.
(*f*) Hamilton *v.* Bogle.
(*g*) Bell *v.* Cheape.
(*h*) Macintosh *v.* Macintosh.
(*i*) Cassels *v.* Lamb and the Scottish Heritable Co.
(*j*) Clark *v.* Jamieson.
(*k*) Kirkpatrick *v.* Kirkpatrick's Trustees.
(*l*) National Bank *v.* Union Bank.

4.—(*a*) PUBLIC INTERNATIONAL LAW.

1. Give examples (1) of what is commonly called International Law becoming merged in Municipal Law and (2) of Municipal Law being extended into International Law.

2. What is the position as to nationality of (*a*) the legitimate child of a Frenchman born in Glasgow; (*b*) the illegitimate child of a Scotswoman born in Paris; (*c*) a Scotswoman, residing in Glasgow, the widow of a Frenchman; (*d*) the legitimate son, born in Paris, of a Scotsman domiciled there; (*e*) a legitimate son, born in Paris, of the son mentioned in (*d*)?

3. Give some account of any one of the legal questions presently pending between the British and any foreign government.

4. Compare the functions and privileges of ambassadors and consuls.

5. Compare the rules as to contraband and blockade.

6. Comment on or explain the following phrases:—Due diligence, Commercial blockade, Pacific blockade, Benevolent neutrality, Armed neutrality.

7. Translate and comment on the following:—Est et ubi operae, periculi, sumtuumque habitâ ratione partitio instituitur, ut apud Italos captae navis pars tertia cedit domino navis victricis, tantundem ferunt quorum merces in navi erant, tantundem hi qui pugnaverunt. Necnon et illud accidit, ut qui suo periculo ac sumtu bellum ministrant non totam praedam auferant, sed partem debeant publico, aut ei qui ex publico jus suum trahit. Sic apud Hispanos si in bello naves privatis sumptibus instruantur, de praeda pars regi, pars et maris praefecto debetur. Galliae moribus decimam fert maris praefectus: sic et apud Hollandos: sed hic quinta prius praedae pars a republica deducitur. *Grotius*, De J. B. & P. III. 6. 24. 8.

(ONE *question to be omitted.*)

(*b*) PRIVATE INTERNATIONAL LAW.

1. Distinguish civil and commercial domicile. Discuss the phrases, "Domicile of origin," "Matrimonial domicile."

2. What law, according to Savigny, determines legitimation *per subsequens matrimonium?* Give an outline of the arguments for and against his view. Is it adopted by the British authorities?

3. What law determines the capacity to test?

4. What is the effect of a change of domicile after the execution of a will?

ONE *question to be omitted.*)

(c) PHILOSOPHY OF LAW.

1. Distinguish Jurisprudence from Ethics, Politics, and Economics.

2. "Friends' goods are common."

3. Discuss the idea involved in punitive expeditions against Indian tribes.

4. "Right and wrong in the legal sense are that which the State has allowed and forbidden, and nothing else."

"In all forms of government the people is the true legislator."

(ONE *question to be omitted.*)

5.—CONSTITUTIONAL LAW AND HISTORY.

1. Explain the maxim, "*Rex non potest peccare.*" State on what principle an unlawful act of the Crown is declared void, and what remedy is available to the subject to obtain restitution of his property unlawfully in possession of the Crown.

2. Give a short history of the office of Principal Secretary of State, and enumerate some of the chief duties of the Home Secretary.

3. Enumerate the existing qualifications in Scotland for voting for members of Parliament.

4. Explain the bearing of the case of Stockdale *v.* Hansard, and of the case of the Sheriff of Middlesex upon the nature and extent of the jurisdiction of the House of Commons in questions of privilege.

5. In what matters does the House of Lords exercise judicial functions?

6. Give a short account of the Case of Shipmoney (*Rex.* v. *Hampden*).

7. Discuss the manner in which, under our constitution, harmony is maintained between the Ministry and the Houses of Parliament.

8. What is meant by the Sovereignty of Parliament?

9. Explain the legal foundation of the right of public meeting.

10. What was the Statute of Proclamations of 1539? How does it illustrate the attitude of the Tudors towards the Constitution?

11. Contrast the nature of the struggle between the Crown and Parliament during the reign of Charles I. and during the period from the Restoration to the Revolution. Illustrate your answer.

12. Notice some of the measures passed by Parliament after the Revolution, tending to secure the supremacy of Parliament and the rule of law.

6.—MEDICAL JURISPRUDENCE.

(SIX *only of the questions to be answered.*

1. Enumerate the principal causes of impotence in the female; and specify those to which legal importance would be attached in an action for divorce.

2. Describe the signs in a child which would lead to the conclusion (1) that it had been born at the full period, and (2) that it had been born alive.

3. Discuss and consider the objections which have been raised to the possibility of superfœtation.
4. Discuss the value of Delusion as evidence of insanity; and distinguish between Delusion and Illusion.
5. A cutting wound being discovered upon a dead body, what appearances would indicate that it had been inflicted twenty-four hours before death?
6. How may the examination of wounds upon a dead body lead to the opinion that they were (1) suicidal, (2) homicidal, or (3) accidental?
7. Describe the principal tests for blood.
8. What symptoms might be expected during life in a case of arsenical poisoning?

VII.—EXAMINATION FOR LUKE HISTORICAL PRIZE.

A.—ROMAN HISTORY.

1. State the exact date, locality, and occasion of each of the following Battles, with the names of the commanders and peoples engaged on either side:—

(1) Battle of Pydna.
(2) ,, Asculum.
(3) ,, Sacriportus.
(4) ,, Metaurus.
(5) ,, Cynoscephalae.
(6) ,, Aquae Sextiae.
(7) ,, Trebia.
(8) ,, Thapsus.
(9) ,, Mylae.
(10) ,, Magnesia.

2. Give the date, the occasion, and the purport of the following laws:—

(1) Lex Aternia Tarpeia.
(2) ,, Gabinia.
(3) ,, Icilia.
(4) ,, Plautia Papiria.
(5) ,, Fufia.
(6) ,, Cassia Tabellaria.
(7) ,, Cassia Agraria.
(8) ,, Publilia.
(9) ,, Horatia de Provocatione.
(10) ,, Aurelia Iudiciaria.

3. Compare the religion, and the religious sentiment, of the Romans with those of the Greeks.

4. Enumerate the Roman Provinces in the time of Augustus, indicating briefly their boundaries, and naming the modern country or countries to which they correspond.

5. The influence of Etruria upon Rome.

6. What does Cicero mean by *Concordia Ordinum?* State clearly in what it consisted, and what were the courses which led to its collapse. Refer to any passages in Cicero, or periods in his life, in which reference is made to it.

7. Give the main points in the legislation of Sulla. Was it permanent? If not, why not?

8. What were the facts which rendered the establishment of a *principatus* at Rome inevitable? Trace the gradual growth of the "one man power" at Rome.

9. Trace the spread of Roman conquest in the East, with dates and names.

10. How far was the Roman electoral system successful in attracting men of the best class to politics?

11. What methods of political obstruction existed at Rome?

12. What political elements entered into the poetical literature of the Augustan age? Contrast the political attitude of Augustan writers with that of the post-Augustan age, and state the causes of the change.

B.—GREEK HISTORY.

1. What was the distribution of power in the Greek world at the time of "Homer"? Discuss the position of (1) women, (2) slaves, (3) kings, at that time.

2. Give an account of (1) Demosthenes the General, (2) Brasidas, (3) Cleon, (4) Alcibiades.

3. What was the political attitude of Argos, from the Persian Wars to the Battle of Mantinea?

4. What were the chief points in dispute between Athens and Sparta at the time of the peace of Nicias?

5. Compare Herodotus and Thucydides as historians.

6. Describe the rule of Pisistratus and his sons. Was Athens prosperous under them?

7. How far did Solon really grapple with the problems of his time?

8. Describe what is known of political life at Sparta.

9. Give an account of the rise of Macedon before Alexander. What other powers had attempted the work which Macedon accomplished?

10. Give an account of Demosthenes' policy as directed against Philip.

11. What was Demosthenes' home policy? How did it differ from that of Eubulus?

12. How far was the Athenian democracy successful in promoting the full life of its citizens?

13. Who were Ephialtes; Thucydides, son of Melesias; Cimon; Cleophon; Thrasybulus; Amytus?

14. Who were the three greatest Athenian patriots?

15. Give an account of the Four Hundred, the Thirty, and the Restoration of the Democracy.

VIII.—CLASS EXAMINATIONS.

MIDDLE HUMANITY CLASS.

6th November, 1890.

1. Write down in tabular form the meaning, the gender, and the genitive singular and plural of the following nouns :—*aetas*, *pecus*, *iecur*, *margo*, *frons*, *gener*, *quercus*, *lanx*, *advena*, *mus*, *tus*, *supellex*, *tibicen*, *abies*, *seges*.

2. Decline in full the singular of—*uterque*, *quidam*, *vetus*, *celeber* ; and compare—*vetus*, *celeber*, *felix*, *sapiens*, *prope*, *diu*.

3. Write down in tabular form :—

(*a*) The 3rd sing. imperf. subj. act.

(*b*) The 3rd plur. fut. ind. act.

(*c*) The 1st plur. perf. subj. pass.

(*d*) The participle in *-rus* (nom. sing. masc.) of the following verbs :—*seco*, *abdo*, *iacio*, *sperno*, *operio*, *cedo*, *pingo*, *saepio*, *spondeo*, *augeo*, *fateor*, *ulciscor*.

4. Give the Latin for :—

(*a*) The city of Rome.
(*b*) One million.
(*c*) Ten a-piece.
(*d*) Three hundred and seventy-four.
(*e*) As soon as possible.
(*f*) What o'clock is it?
(*g*) He pities me.
(*h*) A pen to write with.
(*i*) Many times larger.
(*k*) A child two months old.

5. Distinguish—*hic*, *ille*, *iste* ; *ultra*, *ultro* ; *aes*, *as* ; *quis*, *ecquis*, *quisque*, *quicunque* ; *num*, *nonne* ; *castrum*, *castra* ; *tot*, *quot*.

6. Translate into Latin :—

(*a*) Tell me what are your laws, and I will tell you what is your character.

(*b*) Having gone to Rome in a hurry to see his mother, he returned home at her death.

(*c*) There is a story told of him which shows how calm he could be in circumstances of danger.

(*d*) He thought to the last that Rome would emerge triumphant from her difficulties ; but he would not have given battle on that day had he not thought that succours were near at hand.

SENIOR HUMANITY CLASS.

6th November, 1890.

1. Translate into Latin :—

The brave Sir Andrew died next year. He was a good patriot, and a great loss to his country. There is a story told of him which shows how composed he could be in circumstances of danger. He was in the Highlands with a small body of followers, when the King of England suddenly came on him. Being about to hear mass (*preces*) he would not permit his devotions (*cultus dei*) to be interrupted. That done, his people pressed him to retreat. But Murray still said there was no need for haste. At length his horse was brought out, and all thought that the army would now retreat. Murray, however, observed that a strap in his armour had given way, and he would not move until he had with his own hand cut and fitted the strap which he wanted. Then at last he gave the word for retreat : and though at the time the delay seemed endless to his followers, they became steady and composed from beholding the confidence of their leader.

2. Translate *one* of the following passages :—

(*a*) Ubi in altum evecti sunt, Romanus conserere pugnam et ex propinquo vires conferre velle ; contra eludere Pœnus et arte, non vi rem gerere, naviumque quam virorum aut armorum malle certamen facere. Nam ut sociis navalibus affatim instructam classem, ita inopem milite habebant, et, sicubi conserta navis esset, haudquaquam par numerus armatorum ex ea pugnabat. Quod ubi animadversum est, et Romanis multitudo sua auxit animum et paucitas illis minuit. Extemplo septem naves Punicae circumventae ; fugam ceterae ceperunt. Mille et septingenti fuere in navibus captis milites nautaeque, in his tres nobiles Carthaginiensium. Classis Romana incolumis, una tantum perforata navi, sed ea quoque ipsa reduce, in portum rediit.

b) Tu flectis amnes, tu mare barbarum,
Tu separatis uvidus in iugis
Nodo coërces viperino
Bistonidum sine fraude crines :
Tu, cum parentis regna per arduum
Cohors Gigantum scanderet impia,
Rhoetum retorsisti leonis
Unguibus horribilique mala ;
Quamquam choreis aptior et iocis
Ludoque dictus non sat idoneus
Pugnae ferebaris : sed idem
Pacis eras mediusque belli.
Te vidit insons Cerberus aureo
Cornu decorum, leniter atterens
Caudam, et recedentis trilingui
Ore pedes tetigitque crura.

XI.—VACATION EXERCISES, Etc.

For 1891-92.

CLASSES OF ORIENTAL LANGUAGES.

Prizes are offered for Summer Readings :—

I. To Students of the Junior Hebrew Class of 1890-91.
  1. For an examination in Davidson's Grammar and Vocabularies.
  2. For the best profession in Hebrew Reading.

II. To Students of the Senior Hebrew Class of 1890-91.
  1. For the best profession in Hebrew Reading.
  2. For an original Composition in Hebrew.

MATHEMATICAL CLASSES.

Prizes will be given in the Mathematical Classes for Examinations to be held in November, 1891 :—

For Students in Lower Junior, 1890-91.
  Casey's Sequel to Euclid, pp. 1—100.

For Students in Upper Junior, 1890-91.
  Todhunter's Algebra.

For Students in Senior, 1890-91.
  Edwards's Differential Calculus.

MORAL PHILOSOPHY CLASS.

I. Open to Students of Session 1890-91.
  1. An Examination on Kant's Critiques of Pure and Practical Reason.
  2. An Examination on Plato's Works, especially the *Theætetus*, *Sophist*, *Politicus*, *Philebus*, *Republic*, and *Timæus*.

II. Open to Students of Session 1891-92.
  1. An Examination on Ferrier's Lectures on Greek Philosophy, pp. 1—266 ; and Zeller's Socrates and the Socratic School.
  2. An Examination on Spencer's Data of Ethics.

LOGIC CLASS.

Vacation Essays and Reading.

I. *For Students of Session* 1890-91.

A.—Essays.

1. The Philosophy of Hegel—its Method and General Results.
2. The Nature and Laws of the Imagination.

B.—Reading.

1. *Knowing and Being.*
2. Descartes' *Method*, *Meditations* (English Translation of 1879 or subsequent editions), with the Introductory Essay.
3. Hamilton's Discussions, viz., *Philosophy of the Unconditioned*, *Philosophy of Perception* and *Logic*, with Appendix I., Philosophical.
4. *Institutes of Logic* (large and small print).

A student may take up one or more of the subjects prescribed. The Essay to be given in to the Professor on Thursday, 3rd December, 1891, with sealed letter containing author's name and motto.

The Examination in reading will take place before Christmas.

II. *For students who propose to join the Class for the first time in November*, 1891, the following Reading is recommended, viz.: *Institutes of Logic*, Part I., chapters i., ii., iii., iv., vi., vii., viii., ix., x., xi. (large print only); Descartes (English Translation of 1879 or subsequent edition), *Introduction*, sections I., II., III., and *Discourse on Method.*

Prizes will be given for examination in this department. The examination will take place early in November, 1891.

ENGLISH LITERATURE.

Vacation Reading.

For students of either class during Session 1890-91.

1. Shakespeare's *King Lear.*
2. Browning's *Paracelsus.*

The examination will take place early November, 1891. Students are expected to offer both subjects. A Prize will be given in each class.

GREEK CLASSES.

Vacation Exercises.

I. Open to the Senior and Private Class of 1890-91.

1. Greek Prose—Milton: Areopagitica, pp. 68, 5—69, 19 in Cassell's National Library—"It was the complaint . . . . a fool or a foreigner."
2. To learn by heart Aeschylus' *Prometheus* or *Choephoroi*, omitting lyrical passages. Several prizes may be given.

II. Open to the Senior Class of 1891-92.
  1. Greek Prose. Macaulay: *Warren Hastings*. The first two paragraphs, down to "paralleled in romance."
  2. A written examination in Aeschylus' *Choephoroi*, to be held in November, 1891. (Edition by Sidgwick.)
  3. To learn the same play by heart, omitting lyrical passages. Several prizes may be given.

III. Open to the Middle Class of 1891-92.
  A written examination in Euripides, *Medea*, to be held in November, 1891.

HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows:—

I. Open to all students who shall enrol in the Senior Class of 1891-92, for the best Examination in the following subjects:—
  1. Livy, XXII., caps. 1—50 (Capes).
  2. Horace, *Odes* I.; Virgil, *Georgics* I. (Sidgwick).

II. Open to all members of the Junior Class, 1890-91.
  1. Virgil, *Æneid* I., lines 1—493 (Sidgwick).
  2. Livy, XXI., caps. 40—47, 52—56, 62, 63, and XXII., caps. 1—10 inclusive.

III. For Latin Prose—Open to all members of the Senior Class, 1890-91. For the best short Latin Essay upon the following subject:—To what extent should the *Germania* of Tacitus be considered a Satire?

IV. For Latin Prose—Open to all students who shall enrol in the Senior Class of 1891-92. For the best translation of Aytoun's Lays of the Scottish Cavaliers, "Companion Poets Series" (Routledge), Charles Edward at Versailles, p. 118, from "On commencing his march," down to p. 120, "a great advantage over them."

V. For Latin Prose—Open to all members of the Junior Class, 1890-91. For the best translation into Latin of Arnold's Second Punic War (Macmillan), chap. I., p. 41, from "The Consul had encamped," down to p. 45, "his honourable grave."

The Examinations in the above subjects will be held early in November, 1891. The exercises must be sent in to the Professor on or before November 15th. Each exercise must bear a motto and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

CLASS OF BOTANY.

A Prize is offered to Students in the Class of Botany in Session 1892 for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous plants, to be named after Hooker's "Students' Flora of the British Islands." The specimens must have been collected upon the mainland of Scotland, or upon the Scotch Islands, between 9th July, 1891, and 9th October, 1892, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 9th October, 1892, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance save that derived from books or Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

XII.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.

From 5th June, 1890, to 28th May, 1891.

5th June, 1890.—The Court met. Present—The Principal (in the chair); Mr. James Grahame; Mr. James Colquhoun; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Sheriff Berry; and Professor Stewart.

The Secretary submitted a letter from the Secretary of University College, Dundee, pointing out that as that College, under the Act of 1889, has been made to form part of the University of St. Andrews, it will be no longer necessary to retain the names of the Medical Professors of the College on the list of Extra-Mural Teachers recognized by the University of Glasgow. The Secretary was instructed to transmit the letter to the Senate.

The Court appointed Sir John Neilson Cuthbertson as one of the Governors of the Trust for Education in the Highlands and Islands of Scotland who are to administer the endowments of the Society in Scotland for Propagating Christian Knowledge, under Scheme 201 of the Educational Endowments (Scotland) Commission.

An Excerpt Minute of Senate of 22nd May, 1890, with various suggested alterations and amendments upon the Draft Medical Ordinances submitted by the Court to them under Section xix. (1) of the Act of 1889, was submitted. The Court proceeded to go over these alterations and amendments *seriatim*, and approved of a part of the same, with some slight modifications.

A letter, dated 27th May, 1890, from Professors Buchanan and M'Call Anderson, objecting to some of the proposals contained in said Draft Ordinances, was read, and ordered to be engrossed in the Sederunt Book of the Court.

On behalf of the Ordinance Committee, Professor Ramsay submitted a Report upon Bursaries to be transmitted by the Court to the Commissioners. He also reported that the Committee had agreed to recommend to the Court that they should answer the Commissioners that they have no observations or objections to offer upon the following Draft Ordinances —(1) Draft Ordinance of Edinburgh University upon the system of using the Common Seal, and (2) Draft Ordinance, St. Andrews, No. 3, upon the Patronage of Chairs. He also submitted Draft Ordinances prepared by the Ordinance Committee upon (1) Appeals under Section vi., (2) and (3) of the Act of 1889, and (2) upon the Designation of the Chair of Practical Astronomy.

The Report and Draft Ordinances were adopted, and the Secretary was instructed to transmit the latter to the Senate.

A Minute of Meeting of the Finance Committee was read containing (1) a Report and suggestions by the Committee to the Court upon the question of a Fee Fund; (2) various matters of business regarding repairs and work upon the University Buildings, Factors' Security, College Loans, etc., Execution of Deeds and Claim upon the Woods and Forests Office under Section xxxi. of the Act of 1889; and narrating (3) that in terms of Section xxvii. of the Act of 1889 the Commissioners proposed to pay to each University the sum equivalent to the amount of public monies which the University would have received if the Act had not been passed, but that the Finance Committee of the Commission was disposed to consider that this sum should not exceed the average for the five years preceding the Act; and (4) that the Secretary of the Court had been instructed to point out to the Commissioners that, in consequence of two Professors having retired last year, the University would have to pay in Pensions at the end of the quarter £204 15s. more than the average allowance which the Commissioners had proposed to make, and to submit that therefore the payment should not be calculated upon the basis of a five years' average. The Minute was adopted, with the exception of the Committee's suggestions on the Fee Fund, which were reserved for future consideration.

Mr. Colquhoun reported on behalf of himself and others, to whom the matter had been remitted for consideration, that they were of opinion that a Declaration of Trust regarding the tenure of the Union Building should not be granted, and the Secretary was instructed to advise the Agent of the Union accordingly.

It was resolved that the arrangements between the Court and the University Union as regards the occupation of the Union Buildings should be merely entered in the Minutes of the Court, and be subject to such alterations as from time to time the Court might consider advisable. For the present the arrangements are as follows:—

1. The Glasgow University Union, constituted by the Articles of Constitution of date 23rd March, 1888, shall have the free use and occupation of the Union Buildings during the pleasure of the Court.
2. As a condition of the Union having the use thereof, the Committee of Management shall be bound out of the income provided to them (*a*) to keep the buildings constantly insured against loss by fire in the name of the Court, and that with a Company or Companies, and to such amount as the Court shall from time to time appoint; (*b*) to keep the buildings at all times in a state of thorough repair to the satisfaction of the Court; and (*c*) to pay any rates or assessments which may be lawfully imposed on the occupiers and owners of said building, and to free and relieve the Court of all expenses incident to the occupation and ownership thereof.
3. That the Glasgow University Union be asked to provide the Court with an excerpt from a Minute by them approving of these resolutions and conditions.

An Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

The Secretary submitted a letter from the Secretary of Queen Margaret College with Memorial upon the question of affiliation with this University. The Meeting considered the Memorial, and directed the Secretary to reply that some time ago the Court resolved that in the meantime it would be inexpedient to enter on the consideration of the subject of affiliation or to submit Draft Ordinances on that subject to the Commissioners, and that the Court therefore regret that in accordance with this resolution they are precluded from doing anything more than respectfully acknowledging receipt of the Memorial.

The attention of the Court having been called to reports appearing in the newspapers as to proceedings which have taken place at the present Session of the General Medical Council in London with regard to an examination in this University of Candidates for a Diploma in Public Health held in October, 1889, a Committee of the whole Court was appointed to inquire into the matter and to report.

12th June, 1890.—The Court met as a Special Committee under the remit of 5th June, 1890. Present—The Principal (in the chair); Mr. James Colquhoun; Dr. Hector C. Cameron; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart. The Secretary read the remit of 5th June and also a letter subsequently received from the Registrar of the General Medical Council transmitting the Report of the Committee of that Council on the question of the University of Glasgow Public Health Diploma and relative resolutions of the Council. Having heard from Professor Leishman and Dr. Cameron—who, being Members of the General Medical Council, were present when said resolutions were arrived at—further statements regarding the whole matter, the Committee, without expressing any opinion as to the finding of the Council, resolved to recommend to the Court to offer to those holders of a Diploma, who had passed the examination in question, certain alternative proposals.

19th June, 1890.—The Court met. Present—The Principal (in the chair); Mr. James Colquhoun; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart. There were submitted (1) Excerpt Minutes of Senate upon the Draft Ordinances of the Court affecting the Arts curriculum; (2) reasons of dissent by Professors Dickson, Veitch, Edward Caird, Moody-Stuart, Bradley, and Moir from one of the Senate's proposed alterations on said Draft Ordinances; (3) a printed Memorandum by Professor Dickson on "The Proposal to make Hebrew a subject of Arts"; (4) a printed Memorandum by Professor Robertson on "The Place of Oriental (Semitic) Languages among the studies of the University"; and (5) a Statement by Professors Young, Cleland, Bower, and M'Kendrick on Preliminary Examinations and on Extension of the Session.

The Court considered these documents along with a Report of the Ordinance Committee thereon, and made various alterations on the Draft Ordinances.

An Excerpt Minute of Senate upon the Draft Ordinance of the Court affecting the Law curriculum having been submitted, the Court adopted certain of the alterations suggested by the Senate.

An Excerpt Minute of Senate was submitted suggesting an alteration on the Draft Ordinance submitted by the Court with reference to the General Council, and the alteration was approved.

The Court again took up the Minute of Senate upon the Draft Ordinances of the Court affecting the curriculum in Medicine, consideration of which had not been completed at last meeting of Court. The Secretary also submitted (1) a printed statement on the subject by Professors Young, Cleland, M'Call Anderson, and Bower; and (2) Reasons of dissent by Professors Cleland, Buchanan, and M'Call Anderson from resolution of the Senate. The meeting adopted certain of the alterations suggested.

Intimation was received that the Trustees of the late Major Young of Dunmore had founded Bursaries applicable to the Law Faculty, and the Secretary submitted a draft of the relative Deed of Mortification.

Draft Ordinances from the Commissioners, "Glasgow and Aberdeen No. 1—Election of Rectors" and "Edinburgh No. 3," relating to the limitation of time for appeal were submitted and considered.

The Minute of Meeting of Special Committee on the recent Examination for Diplomas in Public Health was read and adopted.

An application by Mr. Thomas King for recognition of his Lectures on Botany was remitted to the Senate for their report.

The Secretary reported as to the price at which the tools and apparatus at the University belonging to Mr. Phipson could be purchased, and was instructed to purchase the same.

An Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

On behalf of the Ordinance Committee Professor Ramsay submitted a Report as to a proposed Faculty of Science, bearing that the Committee, while concurring in the opinion that it is expedient that a Faculty of Science should be instituted in the University, were not in a position to suggest a detailed curriculum nor to frame Draft Ordinances on Graduation in Science, but recommended that the regulations on Graduation in Science adopted by the Senate and already approved by the Court should be forwarded to the Commissioners for their information. The Court approved of the Report.

The Court after considering a Report on Libraries and Museums resolved not to forward it to the Commissioners in the meantime.

24th June, 1890.—The Court met. Present—The Principal (in the chair); Mr. James Colquhoun; Dr. Hector C. Cameron; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart.

The Secretary submitted proofs (1) of the Court's Draft Ordinances as they now stand, and (2) of a Memorandum to accompany the Ordinances when sent to the Commissioners. These were revised and ordered to be transmitted to the Commissioners.

A Minute of Meeting of the Finance Committee of same day's date, dealing with heritable investments, payment of salary to the Gifford Lecturer, and other matters, was read and approved.

It was reported on behalf of the Ordinances Committee, to whom the matter had been remitted, that under the old system payments from the Exchequer towards a Professor's salary ran from the date of his commission, while all payments from the University Funds, whether in the case of Professors appointed by the Crown or by the University Court, ran from the date of induction by the Senate. On the recommendation of the Committee the Court resolved that in future all salaries should run as from the date of appointment.

The Secretary was directed to instruct the Factors to pay quarterly to Professor Dickson, as Curator of the Library, one-fourth part of £707 when received from the Commissioners, being the compensation granted to the Library for loss of the Stationers' Hall privilege.

An application by Mr. Wilson, of Hillhead House, for leave to depart from certain building restrictions in favour of the University contained in his title was considered, and the Court resolved that it was inexpedient to allow any departure from these restrictions.

It was intimated that the Senate had no observations to make on the Court's Draft Ordinances on limitation of time for appeals, and on the designation of the Chair of Practical Astronomy.

The Court considered a Memorandum from the Athletic Club, and instructed the Secretary to answer that they cannot concede to the Club the exclusive right of use of the recreation field, but that they grant the Club a prior right to the use of it on all reasonable occasions; and that they will see that no use of it is permitted to Students, not members of the Club, which would damage the ground or interfere with the Club's use of it.

The Declaration of Trust regarding the proceeds of the Students' Union Bazaar was executed, and authority was given for payment of all outstanding accounts for furnishing and completion, when duly certified on behalf of the Union.

30th June, 1890.—The Court met. Present—The Principal (in the chair); Mr. James Colquhoun; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. David Hannay; Sheriff Berry; Professor Leishman; and Professor Stewart.

The Court heard an appeal by certain members of the Senate against a decision of the Senate agreeing to the Court's suggestion that a second examination should be offered to the students who passed the Diploma in Public Health Examination in October, 1889. The Court sustained the decision of the Senate.

The Court adjusted the terms of a circular to be sent to the holders of the Diplomas.

An Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

A Minute of Meeting of the Works Committee, dealing with (1) additional work and repairs to be done upon the University Buildings during the summer; and (2) tenders to be taken for the necessary work of furnishing and fitting up the Court-Room was read and approved.

The Court approved of an estimate for putting in double windows and fitting up a bell in the Court-Room.

Intimation was received of the retirement of Dr. Hill, Assistant Examiner in Anatomy. The Secretary was instructed to advertise for applications for the vacancy.

30th July, 1890.—The Court met. Present — Sheriff Berry (in the chair); Sir James King, Bart.; Mr. James Colquhoun; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Professor Leishman; and Professor Stewart.

Nine applications for the vacant Assistant Examinership in Classics were considered, and the Court appointed J. W. Marshall, M.A., University College of Wales, Aberystwith, for three years from 30th September, 1890.

Five applications for the vacant Assistant Examinership in Anatomy were considered, and the Court appointed A. M. Buchanan, M.D., of Anderson's College Medical School, for the period from 21st June, 1890, to 1st April, 1892.

An application by Mr. A. B. Robertson, of Western Medical School, for recognition of his Lectures on Chemistry was remitted to the Senate for report.

In answer to a suggestion by the Commissioners, the Court appointed the Principal and Professors Ramsay and Stewart to give evidence before the Commission in reference to the Court's Draft Ordinances affecting the Faculty of Arts.

The Secretary submitted a Draft Ordinance of the Cnmmissioners, "General No. 1—Power to make payments and investments," and the Court approved thereof.

The Secretary reported the answers which had been received to the circular regarding the Diplomas in Public Health.

It was remitted to the Principal, Professor Leishman, Dr. Cameron, Sir J. Neilson Cuthbertson, Mr. Colquhoun, and Professor Stewart to co-operate with the Senate in making arrangements for re-examination of those holders of Diplomas in Public Health dated in 1889 who had elected to be re-examined.

The Secretary intimated that there had been received from the Commissioners the full amount necessary to meet the salaries and pensions for the quarter ending 30th June, and that arrangements had been made for the Factors to pay over quarterly in future to the persons entitled thereto the sums as received from the Commissioners. Of this the meeting approved, and directed that in making these payments in future the Factors should deduct Income Tax.

A letter from Professor Dickson, as Curator of the Library, was read intimating that he had received payment of the proportion of the Library grant for the quarter ending 30th June, but no payment for the period from Aug., 1889, to 31st March last, as it seemed that such a claim on H.M.'s Treasury was excluded under the recent Act. The Secretary having reported that he had received payment of the proportion of Bursaries for the same period both from the Treasury and the office of Woods and Forests, the Court instructed that a similar claim should be made on the Treasury for proportion of the Library Compensation Fund applicable to that period.

A letter from the Secretary of the Athletic Club was read intimating that the Committee are willing to conduct the Club under the conditions imposed by the Court's Minute of 24th June.

Upon application the Court directed that interest accrued on the portion of the Bazaar money belonging to the Gymnasium and the Union respectively should be paid over to the Treasurers of these bodies.

The Court accepted a tender for installation of electric light in the Court-Room.

The Secretary read the Commissioners' regulations as to dates of retirement of Assessors as follows:—Dr. Cochran-Patrick and Mr. Hannay to retire 21st Dec., 1891; Sir J. Neilson Cuthbertson and Dr. H. C. Cameron on 20th Dec., 1893; Professor Ramsay, on 28th Nov., 1890; Professor Leishman, on 30th Nov., 1891; Sheriff Berry, on 28th Nov., 1892; and Professor Stewart, on 28th Nov., 1893.

A letter from the Commissioners was submitted inviting the Court to make a statement with regard to the manner in which they would suggest that the expenses connected with the General Council should be defrayed. The letter was remitted to the Finance Committee.

George A. Gibson, M.A., was appointed additional Examiner in Arts for the present year in room of Mr. Weir retired.

A Minute of Meeting of the Finance Committee of 30th July was submitted, and in accordance with the recommendation therein, the Court agreed to lend the sum of £2000 on a bond over subjects in Houston Street and Houston Place.

30th October, 1890.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Mr. James Colquhoun; Dr. Hector C. Cameron; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart.

Professors Ramsay and Stewart reported that, as instructed at last meeting, they had attended before the Commissioners on 13th inst., and given evidence regarding the Court's Draft Ordinance on Graduation in Arts.

The Secretary submitted a Draft Ordinance, "Glasgow and Aberdeen Election of Rectors," as amended by the Commissioners, of which the Court approved.

He also submitted the Commissioners' Draft Ordinances, "General No. 1—Power to make payments and investments"; "General No. 2—Limitation for time of appeals and representations"; and "General No. 3—Use of common seal," and of these the meeting approved.

A Draft Ordinance of the Commissioners, "General No. 4—Libraries, museums, and laboratories," was laid on the table to be considered along with the Court's Report on Libraries and Museums.

In answer to a letter from the Secretary of the Athletic Club, it was remitted to Sir James King, Mr. Colquhoun, and Professor Ramsay to confer with the Committee of the Club as to paying over to them their share of the Bazaar money.

A Minute of Meeting of the Finance Committee, dated 26th September, 1890, was submitted, dealing with proposed loans on heritable securities. The Minute also reports that on behalf of the Committee the Chairman, Mr. Colquhoun, had arranged to lend all the available uninvested Funds to the City Police Commissioners on temporary loans at ¼ % more than the Bank Deposit Rate, with minimum of 2¾ %. The Minute was approved.

A Minute of Meeting of the Finance Committee, of date 24th October, 1890, was read, reporting *inter alia*—(1) that the Factors' Annual Accounts of the University for 1889-90 had been received and adjusted with the Factors for audit; (2) that a letter had been received from the Commissioners asking for a statement regarding the manner in which the Court would suggest that the expenses of the General Council should be defrayed, and the Committee's suggestions as to the form of that statement; (3) that the Committee recommended that the sum of £7300 should be lent on a Bond over subjects in Kelvinside at 4 % upon a new valuation; and (4) various other matters including details of Insurance on the University Buildings.

Intimation was received of the resignation by Dr. Fiedler of his appointment as Lecturer on German Language and Literature.

It was reported that the Factors had received payment, from the Office of Woods and Forests, of composition for the Chalder of Meal due yearly from the Crown to the University.

It was also reported that the Treasury had now consented to pay to the Scotch Universities the proportion of the Library Compensation Fund under the Copyright Act, applicable to the period from August, 1889, to March, 1890.

Consideration of the Court's Report on Libraries and Museums and of Draft Ordinance "General No. 4" was deferred.

The Court approved of the appointment, by Professor Jack, of George A. Gibson as Class Assistant, and of Mr. Littlewood as additional Assistant for the year.

A correspondence with Mr. A. B. Paton, Cotton Merchant, Liverpool, who proposes to found a Bursary in the University, was remitted to the Finance Committee.

A letter was read, dated 23rd October, 1890, from Professor Gairdner, as Sub-Convener of a Committee of the General Council, on the question of a Chair of Pathology in the University, transmitting various documents on the subject, together with copy of a resolution of the General Council passed at the April meeting. These documents were submitted and laid on the table, and consideration was deferred.

Excerpt Minutes of Senate granting the privilege of Special Reader at Library were submitted.

The Court sanctioned payment of various Accounts.

27th November, 1890.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Mr. James Colquhoun; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Sheriff Berry; and Professor Stewart.

The Secretary reported intimation received that on 15th inst. the Right Honourable Arthur J. Balfour, M.P., had, by a majority of the Nations, been elected Rector of the University.

The Court appointed Alexander Crum, Esq., and Professor Gairdner to be Governors of Victoria Infirmary; and John Pirie, Esq., and J. B. Cowan, Esq., M.D., to be Managers of the Western Infirmary for the ensuing year.

The Court appointed Mr. W. B. Crawford and Mr. M. P. Fraser, both Writers in Glasgow, Assistant Registrars for the year.

Intimation of resignation of Dr. A. W. Macfarlane, as Examiner in Forensic Medicine, was received, and the Secretary was instructed to advertise for applications for the vacancy.

The Court appointed Dr. Alexander Tille as Lecturer on German Language and Literature in the University for the year.

The Librarian's Report for 1889-90 was submitted, and remitted to Dr. Cochran-Patrick for Examination.

The Court approved of the Senate's appointment of Dr. Thomas Reid as Waltonian Lecturer and Lecturer on the Eye, and also appointed Dr. Yellowlees as Lecturer on Insanity, both for the ensuing year.

In answer to a letter from a Committee of the Aberdeen Court, the meeting instructed the Secretary to reply that they are prepared to take joint action with the Courts of the other Scotch Universities in approaching Government for the removal of the stamp duty at present leviable on each admission to the degree of M.D. in Scotch Universities.

Excerpt Minutes of Senate were submitted, granting the privilege of Special Reader at the Library.

A Minute of Meeting of Finance Committee of 24th November, 1890, was submitted, reporting *inter alia*—(1) As to the securities Mr. Paton proposes to hand to the Court in connection with the foundation of the proposed Bursary; (2) that the Law Agents had been instructed to take proceedings for payment of certain arrears of Ground Annual, etc.; and (3) that certain half-yearly Accounts had been passed for payment on 10th December.

Mr. Colquhoun reported on behalf of himself, Sir James King, and Professor Ramsay that the Athletic Club had now appointed Professor Bower, Mr. Warren Crosbie (Treasurer), and Mr. Robert Hutcheson (Secretary) as Trustees to accept payment of the Club's share of the Bazaar money.

It was also intimated that the Gymnasium Committee had appointed Professor Ramsay, Professor Bower, Professor Bradley, and Mr. M. P. Fraser as Trustees to accept payment of the Gymnasium's share of the Bazaar money.

Upon certain conditions as to an annual return of accounts, etc., the Court agreed to allow the Athletic Club to charge all strangers entry money, not exceeding 1s. each, for admission to the College field on all days on which Rugby Football Matches are played—students to be admitted free on presentation of matriculation ticket.

Additional half-yearly Accounts, amounting—together with those dealt with in the Finance Committee's minute—to £2720 17s. 9½d. in all, were passed for payment on 10th December, 1891.

18th December, 1890.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Mr. James Colquhoun; Mr. David Hannay; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

Intimation was received that on 11th inst. Professor Ramsay had been re-elected one of the Senate's Assessors in the Court for four years from 28th November, 1890.

It was resolved to ask the Senate to undertake, as from the 1st of January next until further arrangements, the administrative work previously done through the House Committee, subject to the same conditions as before.

A representation from the General Council was submitted, drawing the attention of the Court to the position of the study of Pathology in the University, and asking the Court to take steps for the purpose of instituting a Chair in Pathology and making arrangements for a Laboratory in connection therewith. The Secretary was directed to intimate to the Council that the Court have the matters referred to under consideration.

The Court considered the Commissioners' Draft Ordinance, "General No. 4," and resolved to represent to the Commissioners that it would be advantageous to have two Committees instead of one—the first to superintend the Libraries, and the other the Museum, and to make other representations regarding details of the draft.

Excerpt Minutes of Senate were submitted granting the privilege of Special Reader at the Library.

There was submitted a Report from the Senate upon the subject of the regulations for Science Degrees, and the Court instructed the Secretary to reply to the Clerk of Senate that, subject to their resolution of 24th January last, they do not see any cause to object to the Report.

Two representations were submitted from the General Council to the effect (*a*) that, in the opinion of the Council, the Examination for Diplomas in Public Health should be abolished, and that an examination for Degrees of B.Sc. and D.Sc. (in the Department of Public Health) should be substituted; and (*b*) that a Lectureship in Hygiene and Public Health should be founded. Consideration was deferred.

A Minute of Meeting of the Finance Committee of 17th December, 1890, was submitted, reporting (1) that the temporary loan to the Police Commissioners had been repaid, and the money deposited in Bank; (2) that upon the recommendation of the Library Committee of the Senate the Committee had approved of various changes in salaries paid to the Library Assistants, and had agreed to the usual grant of £30 toward binding; (3) details of changes made upon the Insurances over the University Buildings, and that the Committee propose to have the whole of the Policies re-arranged.

The Principal reported intimation of the bequest of £2000 by the late Rev. Robert Stevenson, D.D., of Dalry, to found two Bursaries tenable for four years, open to students preparing for the Ministry of the Church of Scotland, with preference to the natives of the parish of Dalry, whom failing, the parishes of Bannockburn or St. Ninians.

Professor Ramsay submitted a design for the Common Seal of the Court, which was adopted. On Professor Ramsay's motion a cordial vote of thanks was awarded to Mr. Andrew MacGeorge, Writer, late of Glasgow, for valuable aid and assistance in fixing on the design.

29th January, 1891.—The Court met. Present—The Principal (in the chair); Mr. James Colquhoun; Sir J. Neilson Cuthbertson; Dr. Hector C. Cameron; Mr. David Hannay; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

Intimation was received that the Rector had appointed Sir Archibald Campbell, Bart., as his Assessor in the Court.

A letter from the Dean of Faculty of Procurators in Glasgow was read, intimating that the Faculty desire to present to the University, to be placed in the Museum, a Replica of a Bust of the late Sir James Roberton, in memory of his connection with the University. The Secretary was directed to reply that the gift would be most gratefully received.

An application by Mr. E. E. Prince for recognition of his Lectures on Zoology, was remitted to the Senate for report.

The Court considered nine applications for the vacant Examinership in Medical Jurisprudence, and appointed David W. Finlay, B.A., M.D., etc., London, to the vacancy for one year, from 1st April next.

The Secretary was instructed to advertise for applications for the Examinerships in Materia Medica, Chemistry, Botany, and Zoology about to fall vacant; and also for two new Examinerships in Clinical Medicine and Clinical Surgery, to which last two named Examinerships the Court resolved to assign an annual salary of £30 each.

In answer to a request of the Committee of the Students' Union, the Secretary was instructed to reply that the Court have no intention of making any other use of the Union Building than that of a Union.

A Minute of Meeting of the Finance Committee of 23d Jan., 1891, authorizing payment of the Registrars' Fees and some other small Accounts, and dealing with other matters, was approved.

A Minute of Meeting of the Works Committee of 27th January, 1891, dealing (1) with repairs upon the University Buildings and Professors' houses; (2) with lighting the Anatomy Department and the Randolph Hall; and (3) ventilation of the University Buildings, was read and approved.

Joseph Coats, M.D., was appointed Lecturer in Pathology in the University for one year as from 1st November last.

Professor Leishman reported the result of the special examination for Diplomas in Public Health which had been conducted in the University in November last by the Professors, assisted by Dr. Wheelhouse of the General Medical Council, Sheriff Spens, and Dr. J. B. Russell, Medical Officer of Health for Glasgow.

It was reported that intimation had been received that the following Ordinances had now been transmitted to the Secretary for Scotland by the Commissioners, to be laid before both Houses of Parliament:—"No. 4, General No. 1"; "No. 5, General No. 2"; "No. 6, General No. 3"; "No. 7, General No. 4."

Draft Ordinances "General No. 5, General Council," and "General No. 6, Assessors of General Council," were submitted and consideration deferred.

Two statements by Professor Grant relative to the proposed publication of certain astronomical and meteorological observations at the Observatory were remitted to the Finance Committee.

Intimation was received from the Senate that, in accordance with the request of the Court, they are willing to undertake the administrative work formerly done through the House Committee.

In accordance with the recommendation of Professor Barr, the Court agreed to the appointment of A. B. Dobbie, B.Sc., as Young Assistant in Civil Engineering and Mechanics for this year.

Excerpt Minute of Senate granting the privilege of Special Reader at the Library was submitted.

26th February, 1891.—The Court met. Present—The Principal (in the chair); Lord Provost Muir; Mr. James Colquhoun; Sir J. Neilson Cuthbertson; Dr. Hector C. Cameron; Mr. David Hannay; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

A letter was submitted from the Aberdeen University Court to the effect that a question had been raised as to whether, under the Act of 1889, the Court have exclusive right to appoint Examiners and Lecturers, and requesting to know whether this Court will join in a Memorial for Opinion of Counsel. The Secretary was instructed to reply that as this Court have experienced no difficulty with the question they did not deem it necessary to seek the opinion of Counsel.

A letter from the Senate was read, pointing out that it has been the practice for some students to enter again and again for the same examination without being sufficiently prepared to afford a reasonable expectation of passing. This practice not only unduly swells the number of rejections, but gives unnecessary trouble to the Examiners and in the Clerk of Senate's office. After consideration the Court, upon the recommendation of the Senate, agreed that none but matriculated students should be admitted to Degree Examinations or to Graduation, and that students who have been rejected in a professional examination for Graduation in Medicine may be admitted once to re-examination without payment of a further fee, but that for the second and each subsequent re-examination (if any) a special fee of £2 2s. should be charged—these arrangements as regards Medical Degrees being only applicable to the Degrees of M.B. and C.M.

A Minute of Meeting of the Finance Committee, dated 6th February, dealing with College Securities, Arrears of Funds, and other matters, was submitted and approved.

There was submitted the Commissioners Draft Ordinance on "Libraries and Museums," as now amended by them, and at the same time the Court's Report on Libraries and Museums was laid on the table. The Report was ordered to be printed, and the Secretary was directed to answer the Commissioners, pointing out some slight alterations that might be made on the amended Draft Ordinance, and further to inform them that the Court intend soon to submit certain important suggestions on the question, and respectfully propose that until these suggestions have been considered it may be expedient to omit Glasgow altogether from the draft.

The Draft Ordinance, "General No. 5, General Council," was remitted to Sheriff Berry, Mr. Hannay, and Professor Stewart for report.

The Draft Ordinance, "General No. 6, Assessors of General Council," was approved.

The Court appointed John Brown, M.A., John A. Cramb, M.A., and George A. Gibson, M.A., as additional Examiners in Arts for the year 1891.

The Court considered, and, with certain alterations, approved of new regulations for Diplomas in Public Health submitted by the Senate.

The Court considered thirty-eight applications and relative testimonials for the vacant Examinerships in Medicine, and appointed the following gentlemen to the vacant Examinerships, the term of office in each case being four years from 31st March next:—Ralph Stockman, M.D., etc., 12 Hope Street, Edinburgh, with special reference to *Materia Medica;* John Millar Thomson, Ph.D., etc., King's College, London, *Chemistry;* D'Arcy W. Thompson, B.A., University College, Dundee, *Zoology;* George

Murray, British Museum, South Kensington, S.W., *Botany;* Ebenezer Duncan, M.D., 2 Royal Crescent, Crosshill, *Clinical Medicine;* and A. Ernest Maylard, B.S., 10 Blythswood Square, Glasgow, *Clinical Surgery.*

Upon the recommendation of the Senate, the Court agreed to recognize for the purpose of Graduation in Medicine (1) the Lectures of Mr. Thomas King, 110 Hill Street, Garnethill, Glasgow, on *Botany ;* and (2) Mr. A. B. Robertson, Western Medical School, Glasgow, on *Chemistry.*

The Court continued for this year the allowance of £40 11s. to the Divinity Hall Library, and authorized payment.

The Secretary reported that Mr. Paton had now paid over to him £1000, being the amount required for the endowment of his proposed Bursaries, and that the money had been lodged on deposit receipt. It was remitted to Mr. Colquhoun, as Chairman of the Finance Committee, to adjust with Mr. Paton a letter setting forth the conditions of the Bursaries to be written by him and engrossed in the Court's Sederunt Book, and the Secretary was instructed to convey to Mr. Paton the cordial thanks of the University.

26th March, 1891.—The Court met. Present—The Principal (in the chair); Lord Provost Muir; Mr. James Colquhoun; Dr. Hector C. Cameron; Mr. David Hannay; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

Notes by Dr. Cochran-Patrick upon the Librarian's Report for the year 1889-90 were submitted and read.

Professor Stewart, on behalf of Sheriff Berry, Mr. Hannay, and himself, submitted a Report of Objections and Amendments upon the Commissioners' Draft Ordinance, "General No. 5, General Council." The Report was revised and adopted, and ordered to be forwarded to the Commissioners.

A Minute of Meeting of the Finance Committee of date 20th March, 1891, was submitted, narrating, *inter alia*—(1) That a letter had been received from the Commissioners requesting information on the permanent increase in the cost of administration in the University caused by the Universities Act of 1889, and that it had been remitted to Mr. Colquhoun and Professor Stewart, along with the Secretary, to answer the same; (2) that upon the recommendation of Dr. William's Trustees the Committee had resolved to advise the Court to wipe off the arrears of interest on the cost of previous drainage operations, and to spend a further sum of £14 or £15 on drainage upon Chipping Barnet Farm; (3) that a letter dated 3d instant had been received from the Commissioners requesting that in view of a meeting with the Chancellor of the Exchequer, a statement might be furnished within that week of any further information with regard to the annual claims of this University on the Parliamentary Grant, and that such an approximate statement had been given in a letter of which a copy was now submitted; (4) that in accordance with a request from the Commissioners a statement had been supplied showing the amount which has been given or bequeathed to the University during the last twenty years; and (5) that the Committee had instructed the Factors to send the requisite number of copies of the Abstract of University Yearly Accounts to the City Chamberlain to be bound up with the Annual

Volume of Municipal Accounts. The Minute was approved, and after consideration, in order that the Court might not be held to be confined to the statement of claims referred to or debarred from putting forward other claims in future, the Secretary was directed to intimate to the Commissioners that the statement in question was not intended to be taken as a complete record of the wants of the University.

A Minute of Meeting of the Works Committee of 26th February, approving of certain alterations which the Athletic Club Committee purpose making on the University Field, was read and approved.

A Minute of Meeting of the Works Committee, *inter alia*, recommending the Court (1) to instruct the carrying out of certain work specified in the Master of Works' Annual Report; (2) to accept a tender for laying the main entrance under the Tower with granolithic pavement; and (3) to lay the footpath at the entrance of the Square with granolithic pavement, was approved.

The Court approved of various Tutorial Classes for the Summer months, and fixed the fees.

In answer to a Representation by the Students Representative Council, the Secretary was directed to reply that the Council will still be allowed the use of the Room at the University presently used by them to the same extent and on the same terms as previously granted.

In answer to a request of the University Union Committee, it was remitted to Mr. Hannay, Mr. Colquhoun, and Professor Stewart to meet the Members of the Union Committee on the subject of the tenure of the University Buildings.

Notice was received from the Trustees of the late Robert Paterson, Esq., formerly Merchant in Glasgow, that a sum of £1600 would now be paid to account of the bequest of £2000 by that gentleman to the University which had been intimated to the Senate in March, 1889.

The steps which had been taken by the Factors in attempting to let Vouchers Farm were reported, and the Court agreed to allow the present tenant to remain in the farm for another year on the same terms as formerly.

30th April, 1891.—The Court met. Present—The Principal (in the chair); Sir James King, Bart.; Dr. Hector C. Cameron; Mr. David Hannay; Sheriff Berry; Professor Leishman; Professor Stewart; and Professor Ramsay.

The Court resolved to record their sense of the great loss which the University has sustained by the death of Dr. A. B. M'Grigor, and they requested the Principal to draw up an appropriate Minute to be engrossed in the Records.

In answer to a Representation of the Students Representative Council, the Secretary was instructed to intimate that the Court were not disposed to take over the Financial Control of the Gymnasium.

In answer to a Letter and Memorial from Students of Queen Margaret College, the Secretary was directed to point out that the question of Graduation of Women, under Section xiv. of the Act of 1889, is a matter in which the initiative must be taken by the Commissioners, and that, therefore, the Court have at present no right to deal with it.

The Court agreed to a proposal of the Students Representative Council that they should take charge of arrangements at the Installation of the Rector—such arrangements to be subject to the approval of the Installation Committee of the Senate.

A Minute of Meeting of the Finance Committee, dated 8th April, 1891, was submitted—(1) Embracing a Report by the Chairman on various properties over which the University hold Bonds; and (2) narrating (*a*) that the Factors' Accounts for the last financial year had been audited and were now submitted to the Court; (*b*) that the whole securities had been checked; and (*c*) that the Law Agents had been instructed to take steps in Court for enforcing payment of arrears of Knockdolian and Partickhill teinds. The Minute was approved.

A Minute of Meeting of Finance Committee of 29th April, 1891, was submitted, bearing, *inter alia*, (1) that the Committee recommend an abatement for this year on the rents of certain farms belonging to the Dundonald Foundation; (2) that the half-yearly Accounts, amounting to £2490 12s. 3d., had been passed for payment on 10th May; and (3) that the Committee had authorized the execution of certain deeds on behalf of the Court. The Minute was approved.

A Minute of Meeting of the Works Committee, dated 30th April, 1891, *inter alia*, specifying the tenders which the Committee thought should be accepted for carrying out portions of the work recommended in last Minute, was read and approved.

The Secretary reported that the Commissioners had now altered their Draft Ordinance on Libraries and Museums so as to omit Glasgow as requested.

The Court's Report on Libraries and Museums, which had been printed, was ordered to be forwarded to the Commissioners, with a statement that the Court respectfully desire an opportunity of being heard orally on the subject.

A letter from Mr. A. B. Paton, setting forth the conditions of the "Brown-Paton" Bursaries, was read, and ordered to be engrossed in the Sederunt Book.

The Court considered a Representation from the General Council on the subject of Academic Costume, and resolved, in compliance with the Council's request, to receive their deputation at next Ordinary Meeting.

A letter from Professor Buchanan as to the occasions on which Academic Costume should be worn was also submitted.

Intimation was received of the resignation of Dr. Halliburton as Examiner in Physiology, and the Secretary was instructed to advertise for applications for the vacancy.

On the recommendation of the Senate, the Court agreed to recognize the Lectures of Mr. E. E. Prince on Zoology for the purpose of Graduation in Medicine.

Excerpt Minutes of Senate were submitted, granting the privilege of Special Reader at the Library.

The Court authorized execution of a Receipt and Discharge for the £1600 paid to account of Mr. Robert Paterson's Legacy.

28th May, 1891.—The Court met. Present—The Principal (in the chair); Lord Provost Muir; Sir James King, Bart.; Sir J. Neilson Cuthbertson; Mr. David Hannay; Sheriff Berry; Professor Stewart; and Professor Ramsay.

Intimation having been received of the inability of some of the members of the General Council's Deputation on Academic Costume to be present to-day, the Court named 30th July next as a new date for receiving the Deputation.

A letter on the subject of Academic Costume from a member of the Aberdeen University Court was laid on the table, to be considered after the General Council's deputation have been heard.

Intimation was received that the following Ordinances had now been approved by Her Majesty in Council:—

"St. Andrews No. I.—Election of Representatives to University Court, by University College, Dundee."
"St. Andrews No. II.—Precedence of Principals and Professors."
"St. Andrews No. III.—Patronage of Chairs."
"General No. I.—Power to make Payments and Investments."
"General No. II.—Limitation of time for Appeals and Representations."
"General No. III.—Use of Common Seal."

A draft of an Answer by the Court to the Commissioners' letter asking for a Statement regarding the manner in which the Court would suggest that the expenses of the General Council should be defrayed, was submitted and approved.

The Court had under consideration the terms of the late Robert Paterson's Bequest, and remitted to a Committee to report as to certain schemes suggested for the disposal of a portion of the money.

It was remitted to the Principal, Sheriff Berry, and Professor Stewart to draw up a Memorial to the Secretary for Scotland urging the claims of the Scottish Universities to a share of the Budget surplus.

Intimation was received that the Commissioners had resolved that the Annual Reports prescribed under Section xxx. of the Act of 1889 should be published by each University in its Calendar. No joint form of Accounts having yet been arranged by the Universities, the meeting resolved that for this year the Accounts of this University should be published in the Calendar in the same form as in former years.

Draft Ordinances by the Commissioners on the Arts Curriculum and Regulations for Degrees in Science were submitted and remitted to the Ordinance Committee.

XIII.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR THE YEAR 1889-90.

Annual Salaries (exclusive of Class Fees) attached to office of Principal, and to the Professorships, Assistantships, Lectureships, and Examinerships in the University, by Ordinance of the Universities Commissioners and Deeds of Foundation; and Annual Pensions to Retired Professors.

PRINCIPAL.

Salary,	£973 18 4

FACULTY OF ARTS.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Logic,	£286 11 2	......	......
Moral Philosophy,	281 2 4	......	......
Natural Philosophy,	299 6 8	£235 0 0	£100 0 0
Greek,	208 19 3	100 0 0	......
Humanity,	289 8 11	100 0 0	......
Mathematics,	292 0 0	100 0 0	......
Astronomy,	300 3 8	......	......
Civil Engineering,	466 8 10	147 0 0	......
English Literature,	200 0 0	......	......
Naval Architecture,	500 0 0	......	......
	£3,124 0 10	£682 0 0	£100 0 0

FACULTY OF THEOLOGY.

Divinity,	£394 17 3	......	......
Oriental Languages,	300 0 0	......	......
Ecclesiastical History,	333 6 8	......	......
Biblical Criticism,	499 13 10	......	......
	£1,527 17 9		

FACULTY OF LAW.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Law,	£310 0 0	......	......
Conveyancing,	105 0 0	......	.....
	£415 0 0		

FACULTY OF MEDICINE.

Medicine,	£270 0 0	......	......
Anatomy,	250 0 0	......	£200 0 0
Natural History,	210 1 2	£94 3 8	......
Surgery,	100 0 0	......	......
Midwifery,	100 0 0	......	......
Chemistry,	200 0 0	200 0 0	70 0 0
Botany,	210 1 2	......	......
Materia Medica,	100 0 0	25 0 0	50 0 0
Institutes of Medicine,	150 0 0	106 2 6	......
Forensic Medicine,	100 0 0	25 0 0	35 0 0
Clinical Surgery,	112 11 6	......	......
Clinical Medicine,	112 11 6	......	......
	£1,915 5 4	£450 6 2	£355 0 0

LECTURERS.

Waltonian,	£91 5 4
Gifford,	556 2 6
Honyman-Gillespie.*	
	£647 7 10

EXAMINERS FOR DEGREES, &c.

Three in Arts,	£240 0 0
Twelve in Medicine,	385 0 0
Three in Law,	63 0 0
Three Additional Examiners in Arts,	90 0 0
Two Entrance Examiners,	30 0 0
Superintendents of Examinations,	18 18 0
	£826 18 0

PENSIONS.

Five Retired Professors,	£3,051 17 6

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* This endowment is administered by Trustees.

SUMMARY.

The Principal,	£973	18	4
Arts Chairs,	3,124	0	10
,, Assistants,	682	0	0
,, Class Expenses,	100	0	0
Divinity Chairs,	1,527	17	9
Law Chairs,	415	0	0
Medical Chairs,	1,915	5	4
,, Assistants,	450	6	2
,, Class Expenses,	355	0	0
Lecturers,	647	7	10
Examiners in Arts, Medicine, and Law,	826	18	0
Retired Professors,	3,051	17	6
	£14,069	11	9

NOTE.—To the Principalship and each of the Chairs founded before 1800 an official residence is attached, and also some small allowances for Taxes, Lighting, House Repairs, &c., amounting in all to about £18.

STATEMENT OF THE INCOME AND EXPENDITURE OF THE UNIVERSITY FOR THE YEAR 1889-90.

The College Revenue is derived—(*a*) From Teinds—arising from grants—by James, Archbishop of Glasgow, in 1557; by James VI., in 1577 and 1618; by Charles I., in 1630; by Charles II., in 1664 and 1670. (*b*) From Feu-Duties, etc., of lands granted by James, Lord Hamilton, in 1459; William and Thomas Arthurlie, 1466; Queen Mary, 1563; of the lands, etc., of the Friars Preachers, granted by Queen Mary in 1566 to the Town for pious uses, and conveyed by the Town, under Act of Scottish Parliament in 1572, to the College; and from other ancient foundations. (*c*) From proceeds of investments of the surplus rents of the Archbishoprick of Glasgow, from 1694 to 1839. The lease of the Archbishoprick was granted first by William III., in 1690, for nineteen years, for payment of the then debts of the University, and other University purposes. The lease was renewed by successive sovereigns till 1825, when £100 per annum from the Archbishoprick was added to the salary of the Regius Professor of Botany; and £800 per annum was granted for general University purposes till 1839. In 1841 the Crown applied the £800 per annum to salaries for certain chairs in the patronage of the Crown. (*d*) From proceeds of investments from time to time of the annual surplus of income over expenditure.

The gross revenue derived from these sources amounted in 1889-90 to £9,716 2s. 4¾d. But out of this were paid Ministers' Stipends (£1,659 6s. 10d.), Income and Property Tax (£180 6s. 3¾d.), Bursaries (£117 2s. 3d.), leaving nett income £7,759 7s. 0d., of which £3,605 12s. 10d. has been allocated at various times from 1577 to 1817 to salaries of Principal and Professors, and the balance of £4,153 14s. 2d. is transferred (under Ordinance 22) to the General University Fund as stated below.

INCOME OF THE UNIVERSITY DESTINED BY DEED, STATUTE, OR ORDINANCE.

I. For Salaries of Principal, Professors, and Lecturers :—

(1.) Teinds and Endowments under Charters of James VI., Charles I., and Charles II., etc., as stated above, . .	£3,605 12 10	
(2.) Treasury Grant, . . .	2,768 6 8	
(3.) From Deanery of Chapel Royal (Chair of Bib. Crit.),	*352 13 10	
(4.) Foundation of Conveyancing Chair, paid yearly by Faculty of Procurators, .	105 0 0	
(5.) Yates (Shuna) Fund, . .	0 0 0	
(6.) M'Turk's Foundation, . .	10 11 1	
(7.) John Elder Foundations, .	691 8 10	
(8.) A recent Foundation, . .	50 6 0	
(9.) Foundation of Clinical Surgery Chair, . . .	112 11 6	
(10.) Foundation of Clinical Medicine Chair, ...	112 11 6	
(11.) The Black Bequest (Chair of Biblical Criticism), . .	*147 0 0	
(12.) Waltonian Lectureship, .	91 5 4	
(13.) Gifford Lectureship, . .	556 2 6	
		£8,603 10 1

II. For Class Assistants and Class Expenses :—

(1.) From General University Fund for the Chairs of Natural Philosophy, Anatomy, Chemistry, Materia Medica, and Forensic Medicine, under Ordinance 22, . .	£455 0 0	
(2.) From Parliamentary Grant for Class Assistants, under Ordinance 22, . . .	650 0 0	
(3.) From the Black Bequest for the "Young" Assistant, .	147 0 0	
(4.) From the Arnott and Thomson Demonstratorship Fund, .	135 0 0	
(5.) From the Muirhead Demonstratorship Fund, . .	106 2 6	
(6.) From the Baxter Demonstratorship Fund, . . .	94 3 8	
		1,587 6 2
Carry forward, ...		£10,190 16 3

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* Exclusive of Income Tax.

Brought forward,		£10,190 16 3
III. For Non-Professorial Examiners:—		
(1.) From Parliamentary Grants, under Ordinances 14 and 15,	£480 0 0	
(2.) From General University Fund,	301 18 0	
(3.) From Foundations,	45 0 0	
		826 18 0
IV. For Retired Professors:—		
From Parliamentary Grant, under Ordinance 26,		£3,051 17 6
Total Income destined to Maintenance of Teaching Staff, as above,		14,069 11 9
Total Disposable Income (£11,704 10s. 8d.) as below, less £455 for Class Assistants and Class Expenses charged below against General University Fund,		11,249 10 8
Total University Income,		£25,319 2 5

INCOME AND EXPENDITURE OF GENERAL UNIVERSITY FUND, 1889-90.

INCOME.

1. Balance of Revenue from Teinds, etc., under Charters of James VI. and Charles I., and Capitalized Savings, as stated p. 415,	£4,153 14 2
2. Matriculation Fees,	2,049 5 0
3. Graduation and Examination Fees,	4,095 6 0
4. Library Subscriptions,	84 10 6
5. General Council Registration Fees,	245 0 0
6. Government Compensation for Stationers' Hall Privilege (one year and a quarter),	883 15 0
7. Income of Legacies for Library, &c.,	61 0 0
8. Students' Catalogue,	7 0 0
9. Treasury Grant for Maintenance of Buildings (one quarter),	125 0 0
	£11,704 10 8

EXPENDITURE.

I. *University Court and Senate*—		
1. Secretary to the University Court, and Outlays,	£56 15 6	
2. Clerk of Senate,	105 0 0	
3. Assistant Clerks and Outlays,	338 6 8	
		£500 2 2
II. *General Council*—		
1. Registration, etc.,		205 6 1
2. Election of Assessors,		114 16 11
Carry forward,		£820 5 2

Brought forward,				£820	5	2
III. *Business, etc.*—						
1. Factor's Salary and Outlays,	£490	9	10			
2. Law Agents' Accounts,	45	13	8			
3. Auditor,	21	0	0	557	3	6
IV. *Libraries*—						
1. Librarians' Salaries,	£702	1	8			
2. To Account of New Catalogue,	17	10	0			
3. Books and Binding (including a balance still to expend),	1,074	15	0			
4. Stationery, etc.,	7	10	6			
5. Divinity Hall Library,	45	2	0			
6. Students' Catalogue,	31	10	0	1,878	9	2
V. *Hunterian Museum*,				313	0	0
VI. *Observatory*,				226	8	7½
VII. *Buildings*—						
1. Repairs,	£738	4	10			
2. Lighting,	237	18	1			
3. Heating and Ventilating,	727	3	2			
4. Water,	107	6	0			
5. Insurance,	243	10	0	2,054	2	1
VIII. *Service, Cleaning, and Maintenance of Grounds*,				1,398	19	6
IX. *Class Assistants and Class Expenses*—						
1. Allocated by Commissioners' Ordinance,	£455	0	0			
2. Allowed in other Classes,	116	1	6			
	£571	1	6			
Not expended,	11	9	0	559	12	6
X. *Printing and Advertising*—						
1. Printer's Accounts,	£307	11	11			
2. Newspaper Accounts,	157	15	11			
3. Examination Books, etc.,	110	1	0	575	8	10
XI. *Prizes and Medals*,				175	6	9
XII. *Compensation for Graduation Fees under Commissioners' Ordinance*,				50	0	0
XIII. *Gratuity*,				35	0	0
XIV. *Contribution to Glasgow Police*,				21	0	0
XV. *Public Burdens, etc.*,				391	9	1
XVI. *Law Examiners*,				63	0	0
Carry forward,				£9,119	5	2½

		£	s.	d.
	Brought forward,	£9,119	5	2½
XVII.	*Medical Examiners*,	145	0	0
XVIII.	*Extra Examiners* (Share),	45	0	0
XIX.	*Entrance Examiners*,	30	0	0
XX.	*Superintendents of Examinations*,	18	18	0
XXI.	*Expenses of Deputations*,	44	19	2
XXII.	*Interest on Loan from late Mr. Randolph's Trust*,	877	10	0
XXIII.	*Chapel*,	84	17	11
XXIV.	*Miscellaneous*,	75	10	2
	Total General Fund Expenditure,	£10,441	0	5½
	Surplus,	1,263	10	2½
	Together, equal to Income,	£11,704	10	8

Income of Trust Funds for Bursaries, Scholarships, and Prizes.

	£	s.	d.
1. From Capital Funds in charge of the University,	£7,151	16	7
2. From Estate managed by Balliol College, Oxford—5 Exhibitions, at £80,	400	0	0
3. From Funds in the hands of the Town Council, Merchants' House, and Trustees, about	5,785	0	0
	£13,336	16	7

APPENDIX--I.

LIST OF MEMBERS

INCLUDED IN

THE REGISTER

OF

THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1*st JANUARY*, 1891,

WITH ABBREVIATED ADDRESSES, ETC.

N.B.—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.* profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

Abbot, R. T., M.D., Bray, Co. Wicklow
Abercrombie, Peter H., M.B., Meikleriggs, Paisley
Abercromby, R., M.A., minister, Norwich
Acworth, W., M.A., minister, South Stoke
Adam, Alex., M.B., Glasgow
Adam, Basil J., M.B., 3 W. Garden st., Glasgow
Adam, David S., M.A., B.D., minister, Banchory
Adam, Hector M., M.A., minister, Aberdeen
Adam, Jas., M.A., teacher, 71 Scott st., Glasgow
Adam, James, M.A., M.B., Stirling
Adam, James A., M.A., student, Glasgow
Adam, John, M.B., 13 George street, Paisley
Adam, John, M.B., 2 Knowe ter., Pollokshields
Adam, John M., M.B., Port Bannatyne
Adam, John W., M.B., Stepps rd., near Glasgow
Adam, Peter, B.D., prob., 81 Claremont st., Glasgow
Adam, Robert H., M.A., M.B., Paisley
Adam, Thomas, M.A., student, Cumbernauld
Adam, Thomas B., M.D., Langside
Adam, William, M.A., teacher, Glasgow
Adam, William John, M.B., Hillhead, Glasgow
Adam, William T., M.B., Workington
Adams, James A., M.D., Glasgow
Adams, John, M.A., B.Sc., teacher, Campbeltown
Adams, J., B.D., prob., Holburn st., Aberdeen
Adams, John, M.B., 8 Melrose street, Glasgow
Adams, John E., M.A., tea., Gilbertfield, Hamilton
Adams, William S., M.D., Jersey
Adamson, James, M.D., Hetton-le-Hole
Adamson, James, M.A., student, Kinloss
Adamson, J. G., M.D., Lurgan, Armagh
Adamson, W. F., M.A., minister, Galashiels
Addie, John, M.A., minister, Perth
Affleck, John, M.A., D.Sc., Ayr
Agnew, Alex., M.A., tea., 2 Glasgow st., Hillhead
Agnew, J. M., minister, Longhope, Orkney
Agnew, Rbt. R., M.A., tea., 11 Hopetoun pl., Glasgow
Aiken, Jas., M.A., stud., 5 Glenavon ter., Partick
Aiken, James, M.A., writer, Dalmoak
Aiken, J. B., M.A., writer, Dalmoak
Aikman, Charles Brown, writer, Glasgow
Aikman, Chas. M., M.A., B.Sc., chemist, Glasgow
Aikman, John, M.D., Guernsey
Aird, Alex. W., M.B., Galston
Aird, Hugh, M.A., D.D., minister, Brechin
Aird, Robert, M.A., tea., Lochend, Campbeltown
Aitken, David, M.A., teacher, Paisley
Aitken, Jas., M.A., stud., 15 Glasgow st., Hillhead
Aitken, James, M.B., 39 Gibson street, Hillhead
Aitken, John, M.D., Govan
Aitken, John, M.D., Buckhaven
Aitken, P. H., M.A., B.Sc., B.D., min., London
Aitken, R., B.L., writer, Edinburgh
Aitken, Robert Easton, C.A., Glasgow
Aitken, W. B., M.B., Carsehead, Dalry
Aiton, Thomas, B.A., minister, Livingston
Aiton, W., B.L., law agent, Glasgow
Alexander, Andrew, M.A., surgeon, Berwick
Alexander, Arch., M.A., min., Spittal, Berwick
Alexander, Arch. B. D., M.A., min., Langbank
Alexander, Archibald S., M.D., Plymouth
Alexander, Chas. A., M.B., Hillside cot., Kilbarchan
Alexander, David R., M.A., stu., Clarkfield, Partick
Alexander, Jas., M.B., Waterside house, Fenwick
Alexander, John, M.A., minister, Partick
Alexander, John, M.A., student, Birkenhead
Alexander, J. B., M.A., min., Hawaiian Islands
Alexander, Peter, M.A., teacher, Glasgow
Alexander, Robert, minister, Dunfermline
Alexander, R., M.A., teacher, Glasgow
Alexander, Samuel, M.D., Larkhall
Alexander, Samuel P., M.D., Glasgow
Alexander, T. G., M.B., Glasgow
Alexander, Walter, M.A., student, Millerston
Alexander, William, M.D., Dundonald
Alexander, W. M., B.Sc., B.D., M.B., Millerston
Alison, Sir A., Bart., LL.D., K.C.B., lt.-gen., London
Alison, Archibald, minister, Prestwick
Alison, Arthur, advocate, Edinburgh
Alison, George, minister, Kilbarchan

Alison, John, M.A., minister, Edinburgh
Alison, Samuel S., M.A., minister, Belfast
Allan, Arthur, M.A., student, Manse, Fairlie
Allan, G. F., M.A., LL.B,, writer, Hillhead
Allan, George R., B.A., M.D., Glasgow
Allan, Henry, M.A., student, Glasgow
Allan, James Paul, M.D., Renfrew
Allan, James W., M.B., Belvidere Hosp., Glasgow
Allan, John, M.D., Klerksdorp, Transvaal
Allan, J., M.A., surveyor of taxes, Hamilton
Allan, Robert, M.B., Ardrossan
Allan, William, M.B., Langlands House, Govan
Allan, William, M.A., student, Glasgow
Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven
Allan, W., M.B., Cramlington, Northumberland
Allan, W. C., M.B., Klerksdorp, Transvaal
Allan, William C., M.A., student, Minuntion, Barr
Allardice, John, M.A., teacher, Lerwick
Allen, Charles, M.A., minister, Convoy
Allen, Robert A., M.D., Chatham
Allen, William B., M.B., Glasgow
Allen, William E. L., M.B., Higher Broughton
Allison, Alexander, M.D., Loanhead
Allison, James, minister, Alexandria
Allison, John Dunn, M.A., stud., Cartvale, Paisley
Almond, Hely H., LL.D., Musselburgh
Alpine, G., M.A., B.D., minister, Dumbarton
Alston, Andrew, minister, Carluke
Alston, And., M.A., law clerk, U.P. Manse, Carluke
Alston, James M., M.D., Airdrie
Anderson, A., M.A., minister, Carlisle
Anderson, Alexander M., M.D., Dundee
Anderson, A. R., M.A., teacher, Edinburgh
Anderson, David, minister, Ceres, Fife
Anderson, F., M.A., minister, Glasgow
Anderson, G., M.B., Stockton-on-Tees
Anderson, George, minister, New Cumnock
Anderson, G., M.A., B.D., minister, Bothkennar
Anderson, Henry, minister, Partick
Anderson, H., M.B., Billinge, Wigan
Anderson, H. S., M.A., student, Kilmaurs
Anderson, James, M.A., teacher, Annan
Anderson, Jas., M.B., Poulton-le-Fylde, Lancashire
Anderson, J. F., M.A., writer, Glasgow
Anderson, James H., manufacturer, London
Anderson, James Rae, M.D., Canonbie
Anderson, J. Wallace, M.D., Glasgow
Anderson, John, B.D., minister, Lerwick
Anderson, J., B.D., minister, Kelvinside
Anderson, John, M.D., London, S.E.
Anderson, John A., M.D., Stranraer
Anderson, J. B. M., M.A., M.B., Glasgow
Anderson, J. W., M.A., M.B., Barrow-in-Furness
Anderson, Jonathan, writer, Glasgow
Anderson, M. S., M.A., M.B., Kilbirnie
Anderson, Robert, M.B., Busby
Anderson, Robert, D.D., minister, Glasgow
Anderson, Robert, minister, Kilsyth
Anderson, Robt. C., M.A., stud., New Kilpatrick
Anderson, Robert H., manufacturer, London
Anderson, R. S. G., M.A., B.D., prob., Ontario
Anderson, Thomas A., writer, Glasgow
Anderson, T. M'Call, M.D., professor, Glasgow
Anderson, William, M.A., LL.B., student, Glasgow
Anderson, William, minister, Fettercairn
Anderson, William, J.P., Edinburgh
Anderson, William, minister, Boyndie, Banff
Anderson, William, minister, Cults
Anderson, W. H., M.B., Harleston, Suffolk
Anderson, William S., M.D., Chapel-en-le-Frith
Anderton, G. L., M.D., Douglas, Isle of Man
Andrew, Alexander, M.B., Tarbolton
Andrew, Alexander, M.A., student, Paisley
Andrew, Alexander, minister, Glasgow
Andrew, Jas. G., M.B., 6 Walmer cres., Glasgow
Andrew, Robert, M.A., student, Paisley
Andrew, R., M.A., B.D., minister, Glengarnock
Andrew, W. S., M.A., student, Bo'ness
Angus, Robert, missionary, Chryston
Annan, Archibald J., B.L., writer, Glasgow
Appleton, Henry, M.D., Staines, Middlesex
Arbuckle, John H., M.D., Kilmarnock
Armour, Andrew, M.D., Redhouse, Crook
Armour, Matthew, minister, Sanday
Armstrong, G. C., M.D., Blackrock, Dublin
Armstrong, H., B.D., prob., London rd., Glasgow
Armstrong, W. A. A., M.A., minister, Hastings
Arnot, Thomas, writer, Glasgow
Arnott, Hugh Y., M.A., stud., Kinloch, Blairgowrie
Arnott, James, M.D., surgeon-major, London
Arnott, John, M.A., student, Peel, Kirkintilloch
Arrol, C., M.D., Bankstown, Sheerness
Arthur, Adam Niven, teacher, Dunoon
Arthur, David, minister, Aberdeen
Arthur, David, M.B., New Galloway
Arthur, D. F., minister, Banchory-Devenick
Arthur, Hugh, M.B., Airdrie
Arthur, James, minister, Springburn
Arthur, James, M.A., teacher, Largs
Arthur, John Findlay, M D., New Cumnock
Arthur, Patrick, M.D., Lambourne
Arthur, W., M.D., Mirfield, Yorkshire
Ashcroft, F., M.A., missionary, Kelvinside
Ashurst, Fred., M.B., 43 Market st., Blackpool
Aspin, And H., M.A., clerk, 1 Crown ter., Dowanhill
Atkinson, J. P., M.D., Saffron Walden
Auld, A. G., M.D., 3 Lugar place, Kelvinside
Auld, Archibald, M.B., Snaith, Yorks
Auld, Charles, M.D., Kilwinning
Auld, W., M.A., B.D., minister, Carnock
Auld, William, M.B., Myrtle Park, Crosshill
Austin, R., M.D., Ranelagh, Dublin

Babtie, William, M.B., Dumbarton
Badenoch, G. Roy, minister, Lee, Kent
Bailey, William E., M.B., Stockport
Bain, Archibald W., M.A., teacher, Smyrna
Bain, James, minister, Glasgow
Bain, James A., M.A., student, Glasgow
Bain, Joseph, Record editor, London, S.W.
Bain, Robert, M.A., student, Glasgow
Bain, R. W. K., M.A., advocate, Aberdeen
Bain, William, M.A., M D., Patterdale
Bainbrigge, W. P. Y., M.B., Droitwich
Baird, And., M.A., B.D., assist. min., Shotts
Baird, Hugh, minister, Cumbernauld
Baird, John, M.A., B.D., minister, Helensburgh
Baird, John, M.B., Hillhead, Glasgow
Baird, John, M.B., Bonnybridge
Baird, Robert, writer, London
Baird, Samuel J., M.B., Londonderry
Baird, William James, M.D., North Shields
Baker, John C., M.D., Liverpool
Balbirnie, John, M.A., M.D., Plumtree, Notts
Balderston, J. C., minister, West Kilbride
Balfour, Arthur J., M.P., 4 Carlton gar., London, S.W.

Balfour, David D., sheriff-substitute, Glasgow
Ballantine, James, M.D., Catrine
Ballantyne, James T., M.B., Over Darwen
Ballantyne, William, minister, London
Ballardie,S.W.,M.A.,stu.,40Kenmurest.,P'shields
Balloch, Robert, merchant, Glasgow
Bamber, H., M.B., Artois Villa, Chatham
Bamber, W. R., M.A., minister, Salford
Bankhead, W.T., M.A., minister, North Shields
Bankier, Alex. M., M.B., Crewe
Bankier, G. S. H., M.D., Ashton-under-Lyne
Bankier, P. M., M.A., student, Canada
Banks, Alex., M.A., minister, Carnwath
Banks, Chas., M.B., Priorscroft house, Paisley
Banks, John, M.B., Dunoon
Banks, Robert, M.B., Braehead, Carnwath
Bannatyne, A., M.A., minister, Lochgilphead
Bannatyne,Chas.,M.B.,Glaisnockst.,OldCumnock
Bannatyne, D. J., writer, New Jersey
Bannatyne, Gilbert A., M.B., Milheugh, Blantyre
Bannatyne, John, minister, Takaka, N.Z.
Bannatyne, Mark, writer, Glasgow
Bannerman, C., M.A., student, Langside
Bannerman, G. G., M.B., Hawick
Barber, Wm., M.A., of Tererran, Moniaive
Barbour, James M., M.B., London
Barbour, John B., M.B., Fever Hospital, London
Barclay, Arthur, M.B., Netley
Barclay, James, M.A., LL.B., Glasgow
Barclay, James, M.A., minister, Edinburgh
Barclay, J., M.A., D.D., minister, Toronto
Barclay, Robt. D., B.Sc., mech. eng., Edinburgh
Barclay,Robt.F.,M.A.,stud.,21Park ter.,Glasgow
Barclay, Thomas, M.A., minister, Glasgow
Barclay, T., M.A., advocate, Edinburgh
Barker, Alex. E., LL.B., barrister, London
Barker,FrancisJ.,M.A.,stu.,1Bowmontter.,K'side
Barker, H. M., LL.D., teacher, Glasgow
Barlas, Alex. R., M.A., Loc. Gov. Board, Dublin
Barnett, John, minister, Kilchoman
Barnett, J., M.A., minister, Moneymore
Barnhill, James, M.A., Glasgow
Barr, Alexander, minister, Airdrie
Barr, A., D.Sc., C.E., professor, Glasgow
Barr, H., B.L., writer, 45 W. George st., Glasgow
Barr, James, preacher, Maryhill
Barr, James, M.B., Hagg crescent, Johnstone
Barr, James, M.D., Everton, Liverpool
Barr, James, M.A., minister, Wamphray
Barr, James B., M.B., Port-Glasgow
Barr,Jas.K.,M.A.,tea.,113G.Hamiltonst.,Glasgow
Barr, John, surgeon, Rishton
Barr,JohnF.,B.Sc.,stud.,Coldstreamho.,P'shields
Barr, Patrick, B.L., writer, Glasgow
Barr, Thomas, M.D., Glasgow
Barras, Thomas C., M.B., 5 Westercraigs, Glasgow
Barras, Wm. G., M.B., 4 Osborne terrace, Govan
Barrie, John, M.D., Crosshill, Glasgow
Barrie, Wm. R., minister, Longframlington
Barrowman, Jas. S., M.A., stu., 79 Park rd., Glas.
Barry, J. C., M.A., clergyman, Dumbarton
Bathgate, W., M.A., H.M.I.S., Glasgow
Battersby, John George, M.D., Lismore
Bauchop, Jas., M.B., 131 Annfield st., Dennistoun
Baxter, John C., D.D., minister, Kirkcaldy
Baxter,M.M'F.,M.A.,stu.,8 Mansfield pl.,Glasgow
Bayne, Alexander, minister, Tingwall
Bayne, David, M.A., stu., 26 Hopeton pl.,Glasgow
Baynes, Joseph, M.B., Manchester
Beale, Arthur A., M.B., Ark ho., Banbury, Oxford
Beatson, H., minister, Hillhead, Glasgow
Beatson, John F., M.D., surg.-gen., London
Beattie, Matthew, M.B., Newton, Auldgirth
Beattie, Robert M., M.B., Inveraray
Beck, John Wood, M.D., Belfast
Beckett, Alex., M.D., Moneymore
Beckett, C. E., LL.B., 163 St. Vincent st., Glas.
Beckett, John, M.D., Crosshill, Glasgow
Beckett, William, M.A., writer, Glasgow
Begg, Bruce B., M.A., minister, Kirkcaldy
Begg, Robert, M.A., student, Glasgow
Beggs, John, M.D., Reedsmouth
Beith, Robert, M.B., Glasgow
Bell, Andrew B., ch. of Prison Com., Edinburgh
Bell, Andrew L., M B., Dunfermline
Bell, Charles, M.D., Edinburgh
Bell, Charles W., M.B., Glasgow
Bell, David, M.D., Goole, Yorkshire
Bell, Henry W., M.A., minister, Aberdeen
Bell, George T., student, Kirn
Bell, Robert, M.D., Glasgow
Bell, Robert G., M.B., Dalmellington
Bell, Thomas, minister, Edinburgh
Bell, Thos. K., M.B., Coatbridge
Bell, William, M.D., Preston
Bell, William, M.A., M.D., Garstang
Bell, Wm. H., M.A., teacher, Main st., Rutherglen
Bennett, A. J. M., M.A., writer, Dunoon
Bennett, Samuel, M.D., Bruff, Limerick
Bennie, James, M.D., Glasgow
Bennie, J. N., LL.D., clergyman, Leicester
Bennie, Robert, M.A., minister, Greenock
Bennie, William, minister, Bathgate
Beresford, R. de la Poer, M.D., Oswestry
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Watt, D. G., M.A., minister, London, N.
Watt, Dugald C., M.B., Ferryhill, co. Durham
Watt, Henry, M.A., student, Wennetta, Govan
Watt, H. G., M.A., B.D., minister, Dundee
Watt, James R., M.B., Ayr
Watt, J. C., M.A., Fellow, Cambridge
Watt, Thomas, M.A., M.B., Paisley
Watt, Wellstood A., LL.B., student, Hamilton
Watt, Wm., minister, Norriston, Thornhill, Stirling
Watt, William M., minister, Shotts
Waugh, Thomas, M.D., Stewartstown
Weatherhead, James, M.A., B.D., prob., Moffat
Webb, Henry P., M.B., Clapham, S.W.
Webber, G.W., B.Sc., chem., Oswald Hill, Partick
Weild, A., minister, Thornliebank
Weir, James B., M.D., Silverstone
Weir, J. J., M.B., St. John's ter., Jar'w-on-Tyne
Weir, John, minister, Kilmaurs
Weir, John, M.A., assist. to Prof., Kilmaurs
Weir, John, M.A., minister, Forfar
Weir, John W., M.D., Tembuland, South Africa
Weir, John, M.D., Carrickfergus
Weir, John Craig, minister, Bothwell
Weir, Robt., M.B., Dell road, Campbeltown
Weir, Thos. D., B.Sc., C.E., Venezuela, S. America
Weir, T. H., B.D., probationer, Kingairloch
Weir, Wm., B.Sc., student, Kilmaurs
Wells, G. H., M.A., minister, Gorton
Wells, J. H., minister, Bridge of Earn
Welsh, Alexander, M.D., Whitworth
Welsh, John, M.D., Ballyshannon
Welsh, Robert, M.A., minister, London, N.W.
Wemyss, John, M.A., student, Helensburgh
Wenley, Robt. M., M.A., D.Sc., stud., Dowanhill
West, Duncan M., Hillside, Pollokshaws
West, John Henry, M.D., 59 Brigade Depot
Westropp, William, M.D., Limerick
Whammond, W., M.D., Jarrow-on-Tyne
Wherland, James R., M.D., Cork
Whish, Charles, M.B., Pollokshaws
White, Adam, advocate, Glasgow
White, Adam C., M.B., 13 Orr st., Glasgow
White, James W., M.D., Uddingston
White, John, M.A., minister, Kelvinside
White, John, M.B., Pollokshields
White, J. C., M.A., mer., Crosslet, Dumbarton
White, M., M.A., minister, Blairgowrie
White, M., M.A., B.D., minister, Skirling
White, R., M.A., probationer, Maxweltown
White, Walter, minister, Errol
White, William, M.D., Borriscastle
White, Wm., B.D., 4 Hawarden ter., Partick
Whiteford, A., M.A., Neilston
Whiteford, J., M.A., minister, Bonnybridge
Whitehead, Alex., M.B., Paisley
Whitelaw, Robert, M.B., Calcutta
Whitelaw, Wm., M.D., Kirkintilloch
Whitson, James, M.D., Glasgow
Whittaker, Jas. T., M.D., Tillicoultry
Whyte, A., M.A., minister, Clackmannan
Whyte, Alex., B.Sc., B.D., minister, Dalmuir
Whyte, D., M.A., minister, Baun, Downpatrick
Whyte, H. L., sec., Workington
Whyte, James, M.A., stu., 28 M'Lean st., Glasgow
Whyte, J. B., minister, Hartlepool
Whyte, R., M.A., minister, Edinburgh
Whyte, William, B.Sc., Aberdeen
Wight, G., M.A., minister, Wamphray
Wight, William T., B.L., student, Wishaw
Wildridge, Charles M., M.B., Bo'ness
Wilkie, J. M., Liscard, Cheshire
Williams, Alfred, M.B., Huddersfield
Williams, B. T., M.A., Q.C., Narberth, Pemb'shire
Williams, E., M.A., B.D., minister, Swansea
Williams, Ed., M.B., 1 Splott rd., Cardiff
Williams, George, M.D., Dingle, co. Derry
Williams, Leonard, M.B., E. Sheen, London, S.W.
Williams, Walter E., M.B., Fourcrosses, Chwilog
Williamson, D., minister, Forgandenny
Williamson, James, minister, Edinburgh
Williamson, James F., property agent, Glasgow
Williamson, R., D.D., min., Kingarth, Rothesay
Williamson, R.P.G., M.A., te., Greenfieldpl., Alloa
Williamson, Walter, writer, Beith
Williamson, William J., M.A., Derry
Williamson, W.M., M.A., st., Kirkmuirhill, Lesmah.
Willis, George, M.D., Monmouth
Willis, Randolph O., M.B., Oak ho., Monmouth
Willis, William R., M.B., Baillieston
Willison, John, writer, Glasgow
Wills, James, M.B., London, N.
Wilson, A., M.A., B.D., probationer, Drymen
Wilson, Adam J., M.A., student, Glasgow
Wilson, Andrew, M.B., 1 Lendel ter., Glasgow
Wilson, Alex. D., M.B., 3 Gt. Kelvin ter., Hillhead
Wilson, A. S., M.A., B.Sc., min., N. Queensferry
Wilson, Allan, M.D., Alnwick
Wilson, Andrew, M.D., Newton Disley
Wilson, Charles, M.D., Crewe
Wilson, D., minister, Borrowstownness
Wilson, D., M.A., Carbeth, Killearn
Wilson, David, M.A., student, Glasgow
Wilson, David, M.B., Birtley
Wilson, David, M.D., Huddersfield
Wilson, George, M.B., Stane, Shotts
Wilson, G., M.B., Ashton-under-Lyne
Wilson, Henry, M.A., student, Glasgow
Wilson, Henry B., M.B., Glasgow
Wilson, Hugh, M.D., Ochiltree
Wilson, Hugh C., M.A., minister, Eastbourne
Wilson, James, minister, Dundee
Wilson, James L., M.B., Duns, Berwickshire
Wilson, J., M.A., minister, Broughty-Ferry
Wilson, James, M.A., student, Dennistoun
Wilson, James, M.B., Johnstone
Wilson, James, M.A., M.B., Govan
Wilson, James M.A., student, Port-Glasgow
Wilson, Jas. A., M.B., Langley Moor, Durham
Wilson, James A., M.D., Springburn
Wilson, James M., M.D., Doncaster
Wilson, James H., teacher, Cupar-Fife
Wilson, J. P., M.A., stu., manse, St. Quivox, Ayr

Wilson, James P., M.B., Infirmary, Dumfries
Wilson, James S., M.B., Cumnock
Wilson, John, minister, Aberdeen
Wilson, J., M.A., minister, Abernyte
Wilson, J., M.A., minister, Methven
Wilson, John, M.D., Glasgow
Wilson, John, M.D., Lanchester
Wilson, John, M.B., 38 Monteith row, Glasgow
Wilson, John, M.A., teacher, Glasgow
Wilson, John C., M.B., Blantyre
Wilson, J. G., M.D., Ashton-under-Lyne
Wilson, James S., M.D., Wallsall
Wilson, John, M.A., student, Tillicoultry
Wilson, John, minister, Bellshill
Wilson, John, M.D., Brookborough
Wilson, John N., M.B., Jarrow-on-Tyne
Wilson, John R., M.A., minister, Hawick
Wilson, J., M.A., s'master, Leatherhead, Surrey
Wilson, Matthew, M.A., stu., Broomhouse, Glas.
Wilson, Matthew, M.A., Johnstone
Wilson, Matthew G., M.A., student, Glasgow
Wilson, P., M.A., minister, Leith
Wilson, Robert, surgeon, Coatbridge
Wilson, R., M.A., minister, North Ronaldshay
Wilson, Robert, M.D., 38 Monteith row, Glasgow
Wilson, R. A., M.D., Hornby, Lancaster
Wilson, Stewart, M.D., Omagh
Wilson, T., M.A., minister, Lesmahagow
Wilson, Thomas H., M.A., teacher, Strathaven
Wilson, Thos. L., minister, Longside, Aberdeen
Wilson, William, M.A., student, Bothwell
Wilson, William, M.D., Irvine
Wilson, W. B., preacher, Bellshill
Wilson, William A., M.D., Greenock
Wilson, William W., M.A., minister, Auchnagatt
Wilson, Wm. M., M.B., Mavisbank, Airdrie
Wilson, William M'K., M.B., Glasgow
Wingate, Donald, M.B., Haswell, Durham
Wingate, Walter, M.A., student, Glasgow
Wingate, Wm., minister, Bayswater
Winn, James M., M.D., London, N.W.
Winning, W., M.A., Rutherglen
Wishart, Robert, minister, Thornhill
Wishart, R. S., M.A., teacher, Chryston
Wolfe, John Reissberg, M.D., Glasgow
Wood, Jas. B., B.D., prob., 16 River st., Brechin
Wood, Percival J., M.A., teacher, Burton Stather
Woodburn, A., B.Sc., C.E., Allangrove, Prestwick
Woodburn, James C., M.D., Glasgow
Woodgates, Samuel H., M.D., Exeter
Woods, Thomas, M.D., Parsonstown
Woodside, David, B.D., minister, Glasgow
Wooley, Samuel P., M.B., Bradford
Wotherspoon, A. S., M.B., Schoolho. Stonehouse
Wotherspoon, John, M.B., Shawell, Rugby
Wotherspoon, W. L., minister, Kilspindie
Wray, William, M.A., minister, Cookstown
Wright, Alexander, M.A., minister, Musselburgh
Wright, D., M.A., stu., 43 Houldsworth st., Glas.
Wright, D., M.A., minister, Bellahouston
Wright, Hugh, solicitor, Edinburgh
Wright, John, M.B., Eskbank, Dalkeith
Wright, John C., M.B., Glasgow
Wright, John S., M.B., Glasgow
Wright, Peter, minister, Forfar
Wright, Thos., M.A., stu., Houston sq., Johnstone
Wright, William, minister, Lochee
Wyer, Otho F., M.D., Leamington
Wylie, A. Howie, M.D., Oldham
Wylie, A., M.A., min., 11 Lutton pl., Edinburgh
Wylie, Alexander, W.S., Edinburgh
Wylie, Alex., M.B., Croxall Grange, Lichfield
Wylie, James, M.B., 64 Kelvingrove st., Glasgow
Wylie, James A., M.A., student, Hamilton
Wylie, John, M.B., Dalmuir
Wylie, John, M.B., Stewarton
Wylie, Rich. J., M.B., 1 The College, Glasgow
Wylie, W., M.A., teacher, Rutherglen
Wylie, Wm.S., B.L., law cl., 160 W. George st., Glas.
Wyllie, John, M.D., 262 Beverley road, Hull
Wyllie, William, M.D., Kirby, Lonsdale
Wyllie, William, M.A., minister, Eyemouth

Yair, David W., minister, Firth, Orkney
Yair, John M., M.B., Kilcreggan
Yair, Joseph, M.A., minister, Eckford
Yarrow, Henry, M.B., Glasgow
Yeaman, George, M.D., Glasgow
Yeo, Gerald, M.D., Harling, Petersfield
York, William, writer, Glasgow
Young, Alexander, writer, Glasgow
Young, Alexander, minister, Glasgow
Young, A. A., M.A., stu., 11 Gt. Western ter., Glas.
Young, Archibald, M.A., minister, Aberdeen
Young, Daniel L., M.A., clerk, Glasgow
Young, David, M.D., Glasgow
Young, David, D.D., minister, Bridge of Allan
Young, David, M.B., Partick
Young, E. D., M.A., W.S., Edinburgh
Young, F. S., M.A., stu., 11 Gt. Western ter., Glas.
Young, George B., B.L., student, Falkirk
Young, Homer, M.A., student, Partick
Young, Hugh C. T., M.B., Paisley
Young, J., M.A., tea., South Schoolhouse, Biggar
Young, James, M.D., Viewfield house, Stewarton
Young, James, minister, Tighnabruaich
Young, J., M.A., minister, Paisley
Young, Jas. J. T., M.B., F.C. manse, Tighnabruaich
Young, James W., writer, Kilsyth
Young, J., M.D., professor, Glasgow
Young, J., M.B., Earlston
Young, John, M.D., Sheffield
Young, John, minister, Greenock
Young, J., M.A., B.Sc., secy. to Tech. Coll., Glas.
Young, John, M.B., 76 Armadale st,, Glasgow
Young, J. M., M.B., 149 Beverley rd., Hull
Young, John M., M.A., M.B., Glasgow
Young, R. Arthur, M.A., LL.B., stud., Glasgow
Young, R. B., M.A., M.B., Dowanhill
Young, Robert H., M.B., Glasgow
Young, Robert, M.A., student, Paisley
Young, Robert R., M.B., 2 Melbourne st., Leicester
Young, R. T., M.A., student, Bridge of Allan
Young, Thomas, M.D., Manchester
Young, Thomas C., M.A., LL.B., writer, Glasgow
Young, William, M.A., minister, Baldernock
Young, William G., M.D., Glasgow
Young, W., minister, Barrhead
Young, William M., M.A., M.B., Glasgow
Young, W. R., M.A., teacher, Newhouse, Stirling
Younger, Arch. S., B.Sc., eng., 6 Park ter., Govan
Younger, Henry J., M.A., M.B., Greenock
Younger, R. T., LL.B., advocate, Edinburgh
Yuille, James, minister, Peterhead

Zinkeisen, William, B.Sc., student, Glasgow
Zuill, John, M.A., M.B., Buchlyvie
Zuill, Robert, M.B., Buchlyvie

APPENDIX II.

UNIVERSITY OF GLASGOW LOCAL EXAMINATIONS.

BOARD OF MANAGEMENT.

Vice-Chancellor and Principal John Caird, D.D., *President.*

Professor Dickson.
,, Ramsay.
,, Veitch.
,, E. Caird.
,, Young.
,, Stewart.
Professor Ferguson.
,, M'Kendrick.
,, Cleland.
,, Jack.
,, Lindsay, F.C. College.

Professor Stewart, *Honorary Secretary.*
James Coutts, M.A., *Secretary.*

EXAMINERS.

David S. Adam, M.A. ; Patrick H. Aitken, M.A., B.Sc., B.D. ; James Bonar, LL.D. ; James T. Bottomley, M.A., D.Sc., F.R.S. ; Professor Bower, D.Sc. ; Professor Bradley, M.A. ; James Brown, M.A. ; Professor E. Caird, LL.D. ; James Cappon, M.A. ; Professor Cleland, M.D. ; John A. Cramb, M.A.; Professor Dickson, D.D. ; Professor Dobbie, D.Sc. ; J. M. Dodds, M.A. ; John Dougall, M.A. ; Professor Ferguson, M.A., LL.D. ; J. H. Fullarton, M.A., D.Sc. ; George Gibson, M.A. ; Professor Grant, LL.D.; R. Greenlees ; G. G. Henderson, M.A., D.Sc. ; W. R. Herkless, M.A., LL.B. ; Professor Jack, LL.D. ; Professor Jones, M.A.; Rev. T. B. Kilpatrick, B.D. ; Gavin Lambie, M.A. ; Professor Lindsay, D.D. ; J. H. Muirhead, B.A. ; Alex. Murdoch ; James A. M'Callum, M.A. ; Professor M'Cormick, M.A. ; Professor M'Kendrick, M.D., F.R.S.; John S. M'Kenzie, M.A.; Magnus M'Lean, M.A. ; James Macmillan, M.A. ; Professor Murray, B.A.; Professor Nichol, LL.D. ; Rev. W. Patrick, B.D.; R. H. Pinkerton, M.A. ; Professor Ramsay, LL.D.; Professor Robertson, D.D.; J. M. Robertson, M.A., M.B.; W. Smart, M.A. ; Montague Smith ; Professor Stewart, D.D. ; Professor Story, D.D.; Professor Strong, LL.D. ; Professor Sir W. Thomson, LL.D.; Alex. Tille, Ph.D.; Professor Veitch, LL.D. ; R. M. Wenley, M.A., D.Sc. ; J. Muir Wood ; Professor Young, M.D.

The Board may add to the number of Examiners before the date fixed for the next Examination.

LOCAL CENTRES AND SECRETARIES, 1891.

Bowmore, ...	Rev. J. M'Gilchrist.
Dumbarton, ...	Henry Procter, Esq.
Greenock, ...	M. F. Dunlop, Esq., Writer.
Hamilton, ...	James Loudon, Esq., M.D.
Helensburgh, ...	Rev. John Baird, B.D.
Kilmarnock, ...	J. P. Stevenson, Esq., Solicitor.
Largs, ...	J. K. Boyd, Esq.
Lenzie, ...	Rev. W. Miller.
Paisley, ...	J. E. Campbell, M.A., B.L.
Rothesay, ...	Arch. M'Kirdy, Esq.
St. Bees, ...	Rev. J. Smallpiece.

REGULATIONS FOR 1892.

The Examinations for 1892 will be held on 31st May, and 1st, 2nd, and 3rd June. Both boys and girls are admitted, but boys are not admitted above the age of 18.

Enrolment forms may be obtained from the Secretary at the University, in the month of April. Candidates must fill up and return these forms *on or before the 1st May*, forwarding the fees at the same time. Unless by special permission, candidates will not be admitted to enrolment after 1st May.

PLACES OF EXAMINATION.—Candidates will be examined at the University, Glasgow, and at such places as the Board may appoint as Local Centres. The Board undertake to establish a Local Centre in any place (excepting the other University seats, St. Andrews, Aberdeen, and Edinburgh), upon the following conditions:—1. A Local Committee of those interested in the higher education of the district must be formed, and must make the local arrangements required for the proper conducting of the Examination. 2. In order that any place may be recognised as a Local Centre, fees to the amount of at least £5 must be contributed by or on behalf of the candidates enrolling for examination at such place. 3. Any expenses incident to the Examination at each Local Centre (but not including fees to Examiners) must be borne by the Local Committee.

The Secretary of the Local Committee will receive from the candidates belonging to the district their enrolment forms, duly filled up, and their fees, and will transmit them *not later than 2nd May* to the Secretary of the Board at the University.

CERTIFICATES.—The Certificates granted by the Board are as follows, viz.:—

I. Junior, }
II. Senior, } for both boys and girls.
III. Higher, }
IV. Certificate in Degree Subjects, } for women.

They are signed by the Vice-Chancellor of the University, and specify in each case the subjects in which the candidate has passed.

The following privileges are attached to the Certificates granted by the Board :—1. Students under 17 years of age proposing to enter the Faculty of Arts in the University are required to pass an Entrance Examination, but the holders of Junior or Senior Certificates are exempted from examination in the subjects comprised in their certificates. 2. Students proposing to enter on the study of medicine in this University or other Medical School are required to pass a Preliminary Examination in General Education, but the holders of Junior or Senior Certificates are exempted from examination in the subjects comprised in their Certificates. 3. Students holding a Senior Certificate bearing that the holder has passed with not less than 60 per cent. of the marks attainable in Latin, Greek, or Mathematics, are qualified to attend, in any of the Scottish Universities, the Higher Classes in the subject or subjects passed, without having previously attended the Junior Classes in the same department, and provided such students have passed with the required percentage in Latin and Greek, they may complete the curriculum for a Degree in Arts in three Sessions. 4. The Senior Certificate—provided that it comprises one or more of the following subjects, viz., Latin, Greek, French, German—is accepted as qualifying for admission to Girton College, Cambridge. 5. Females holding the Senior Certificate, or the Higher Certificate, or the Certificate in Degree Subjects, may act as assistant teachers under Art. 79 of the Scotch Code of the Education Department, and under Art. 47 *b*. 2 may obtain Government Certificates after twelve months' service in a day school receiving Government Grants. It may also be mentioned that Candidates who have passed in the Common Subjects are exempted by the Glasgow School Board from the examinations prescribed for intending pupil-teachers in their schools.

The subjects of Examination, proficiency in which gives a right to a Certificate, are divided into five groups :—

(*a*) Common Subjects.
(*b*) Special Subjects for the Junior Certificate.
(*c*) Special Subjects for the Senior Certificate.
(*d*) Special Subjects for the Higher Certificate.
(*e*) Subjects for Certificate in Degree Subjects.

All candidates for the Junior and for the Senior Certificate are required to pass in five common subjects, viz. :—1. English ; 2. History *or* Scripture History ; 3. Geography ; 4. Arithmetic ; 5. Latin *or* French *or* German, to the extent specified.

Candidates for the Junior Certificate must also pass in a selection from Group (*b*) ; and candidates for the Senior in a selection from Group (*c*). Candidates for the Higher Certificate must pass in a selection from Group (*d*) ; and for the Certificate in Degree Subjects in a selection from Group (*e*). The selection must in each case be made in accordance with the regulations.

Candidates for the Junior or Senior Certificate may take the Common and the Special Subjects in different years. The names of those who pass in the Common Subjects are registered, but no Certificate is issued till the Candidates have also passed in the Special Subjects.

Candidates for Junior, Senior, or Higher Certificates may also present themselves for Examination in Drawing and Music, and their proficiency in these EXTRA SUBJECTS will be recorded in the Certificates, but the numerical values obtained will not be taken into account in arranging the order of merit.

The Time Tables should be consulted by Candidates in selecting their lines of study, so as to ensure that the hours of examination in the various subjects selected may be compatible.

The subjects in Group (*b*) are arranged in four departments, and the subjects (in number at least *three*, and not more than *four*) selected by any candidate must be taken from at least two of the departments. Department A comprehends—1. English Composition and English Literature; 2. History and Geography; 3. Scripture. Department B—1. Latin; 2. Greek; 3. French; 4. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Chemistry; 2. Botany; 3. Zoology; 4. Physiology; 5. Geology and Physiography. From Department D not more than one subject may be taken.

The subjects in Group (*c*) are also arranged in four departments, and the subjects (in number at least *three*, and not more than *five*) selected by any candidate must be taken from at least two of the departments. Department E comprehends—1. English Literature; 2. History; 3. Political Economy; 4. Logic; 5. Scripture. Department F—1. Latin; 2. Greek; 3. French; 4. German. Department G—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department H—1. Chemistry; 2. Botany; 3. Zoology; 4. Human Physiology; 5. Geology. From Department H not more than one subject may be taken.

The subjects in Group (*d*) are arranged in five departments, viz.:—Department A—English Language and Literature. Department B—1. Latin; 2. Greek; 3. French; 4. Italian; 5. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Psychology, Logic, and Metaphysics; 2. Moral Philosophy; 3. Political Economy; 4. History; 5. Scripture. Department E—1. Chemistry; 2. Botany; 3. Geology and Physical Geography; 4. Zoology; 5. Physiology. The range of selection allowed to candidates for the Higher Certificate varies according to their preliminary qualifications. If the Candidate has taken the Senior Certificate in the Local Examinations of any University, or if she has attained the age of 18 years, and passed in the subjects included under Group (*a*), or an equivalent examination, she may offer herself for examination in at least *three* and not more than *six* subjects taken from at least three of the departments. If the Candidate has attained the age of 18 years, but has not passed the examination specified above, she may offer herself for examination in Department A, and, in addition, in at least *three* and not more than *five* subjects, taken from at least two of the remaining departments, provided always that one of these additional subjects shall be Mathematics *or* taken from Department B. No girl under the age of 18 is admitted to the examination for the Higher Certificate unless she holds a Senior Certificate.

The subjects in Group (*e*) are also arranged in five departments, viz.:—Department A—English Language and Literature. Department B—1. Latin; 2. Greek. Department C—1. Mathematics; 2. Natural

Philosophy. Department D—1. Psychology, Logic, and Metaphysics; 2. Moral Philosophy. Department E—1. Chemistry; 2. Botany; 3. Geology; 4. Zoology; 5. Physiology. Candidates are required to select at least *five* of these subjects from at least three departments. They have it in their option to complete their examination in all the subjects in one year, or to distribute them over a period not exceeding three years.

Subject to the condition that Candidates are not entitled to Honours or Commendation unless they pass in all the Special Subjects in one year, successful Candidates for the Senior and the Junior Certificate are ranked in three grades according to the degree of proficiency displayed, viz.:—

1. With Honours.—Those who pass with an average of not less than 75 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of Special Subjects which they are allowed to take up will be recorded as having passed with highest Honours.

2. With Commendation.—Those who pass with an average less than 75 per cent. but not less than 60 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of subjects will be recorded as passing with Special Commendation.

3. Pass.—Those who obtain pass marks in the requisite subjects, but fail to attain to the Standard for Commendation.

Passing with Honours or with Commendation will be recorded in the Certificates, as well as in the Report and books of the Board.

Those who obtain Higher Certificates are arranged in order of merit, with a deduction in the case of Candidates who take more than three subjects of 50 per cent. for each subject in excess of three.

An Honour List is published containing the names of those candidates for the Higher Certificate and the Degree Subjects Certificate who obtain 75 per cent. and upwards in each of two or more subjects.

No certificate is granted if the subjects in which the candidate has passed belong to only one department. In order to obtain a Higher Certificate the candidate must pass in subjects taken from at least three departments. The certificate in Degree Subjects is not granted until the candidate has passed in five subjects taken from at least three departments.

Candidates may enter for examination in the Common Subjects on payment of a fee of 10s. Candidates who have passed in the Common Subjects may enter for examination in the Special Subjects for the Junior Certificate on payment of a fee of 10s., and for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1. Candidates may enter for examination in all the Subjects (Common and Special) for the Junior Certificate on payment of a fee of £1, and for examination in all the Subjects (Common and Special) for the Senior Certificate on payment of a fee of £1 10s. Holders of Junior Certificates of this University or of any other University whose Certificates may be recognised by the Board may enter for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1.

Candidates for the Higher Certificate who hold a Senior Certificate, or who have passed in the subjects included under Group (*a*) are required to pay a fee of Two Guineas. Other candidates are required to pay Three Guineas.

Candidates for the Certificate in Degree Subjects are required to pay a fee of Three Guineas.

Any holder of a Certificate may, on payment of a fee of ten shillings, be admitted to examination in one or more additional subjects, with the view of adding to the value of the Certificate previously obtained.

Candidates who have not been successful may reappear for examination on the following terms:—

1. Any Candidate who has failed in only one of the Common Subjects, *i.e.* Group (*a*), shall, on application in a subsequent year, be admitted to examination in that subject without payment of additional fee, and without requiring to undergo examination again in the subjects already passed.

2. Any Candidate who has failed in more than one of the Common Subjects shall, on application in a subsequent year, be admitted to examination in the whole of the Common Subjects on payment of a fee of ten shillings.

3. Any Candidate who has failed in only one of the Special Subjects, *i.e.* Group (*b*), (*c*), or (*d*), shall, on application in a subsequent year, be admitted to examination in that subject, so as to complete the minimum requirements for a Certificate, without payment of additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

4. Any Candidate who has failed in more than one of the Special Subjects, but who has passed in such subjects as, with the addition of *one* of those in which the candidate failed, would have sufficed for a Certificate, shall, on application in a subsequent year, be admitted to examination in *that* subject without additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

5. Any Candidate who has failed in all the Special Subjects or in all but one of the Special Subjects selected shall, on application in a subsequent year, be admitted to examination in the subjects previously attempted, or in any three or more of them, on payment of a fee of ten shillings, and to examination in any other subject or subjects (but so as not to exceed the prescribed number), on payment of a further fee of ten shillings.

Candidates are admitted to free re-examination only once, and only in one subject, whether common or special.

Fees are not returned under any circumstances.

EXAMINATION OF SCHOOLS.

I. Applications to the Board for the appointment of Examiners should be made *before the 9th of April*, 1892. The subjects in which examination is sought must be submitted to the Board for approval.

The Board reserves the right of declining to entertain an application for the appointment of Examiners.

The Examiners' reports will be submitted to the Board before transmission to the Managers or Head-Masters of the schools examined.

The fee for the services of each Examiner is three guineas per day of six hours, whether spent in examining classes or reading written papers.

II. The Managers of any school may present their pupils at the Local Examinations on the following conditions:—

1. The pupils shall be arranged in at most three divisions corresponding to the three groups of Local Examination subjects. When they are arranged in three divisions, papers on the Special Subjects for the Senior Certificate will be set to the highest division; papers on the Special Subjects for the Junior Certificate to the second division; and papers on the Common Subjects to the lowest division. When they are arranged in two divisions or in one division only, the Managers shall specify the two groups or the one group of subjects in which they wish their pupils examined.

2. No Certificate will be given to the pupils thus examined.

3. A fee of 5s. shall be paid for each pupil.

A special report, stating the results obtained by each pupil in the several subjects of examination, will be sent to the Managers.

Detailed information as to the Subjects of Examination may be found in the Report of the Board for 1891 (containing also the Regulations for 1892), published by Messrs. James MacLehose & Sons, Publishers to the University, 61 St. Vincent Street, Glasgow. Price 6d., or per post, 8d.

APPENDIX III.

LIST OF EXTRA-ACADEMICAL LECTURERS.

List of Extra-Academical Lecturers whose lectures have been recognised by the University Court of the University of Glasgow, for the purpose of graduation in Medicine, in terms of Ordinance No. 15, Glasgow No. 2, section viii., sub-section 5:—

2 Oct., 1867,	Stevenson M'Adam, Ph.D., Edin.,	*Chemistry.*
29 July, 1875,	Joseph Coats, M.D., Glasgow,	*Pathology.*
10 Nov., 1875,	James Dunlop, M.D., Glasgow,	*Surgery.*
1 Dec., 1875,	Dr. Thorpe, South Kensington,	*Chemistry.*
19 April, 1876,	Dr. James Gow Black, Otago,	*Chemistry.*
,,	Miller Coughtrey, M.B., Otago,	*Anatomy.*
7 Nov., 1876,	Henry E. Clark, F.F.P.S.G., M.R.C.S.E., Glasgow,	*Anatomy.*
,,	John Dougall, M.D., Glasgow,	*Materia Medica.*
,,	Alex. Lindsay, M.D., Glasgow,	*Medical Jurisprudence.*
,,	James Stirton, M.D., Glasgow,	*Midwifery.*
7 March, 1877,	Thomas M. Hocken, M.R.C.S.E., L.S.A., Lond., Otago,	*Clinical Surgery.*
,,	Dr. Gillies, Otago,	*Clinical Medicine.*
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	*Anatomy.*
,,	Robert Perry, M.D., Glasgow,	*Clinical Medicine.*
,,	Jas. Finlayson, M.D., Glasgow,	*Clinical Medicine.*
,,	Alex. Patterson, M.D., Glasgow,	*Clinical Surgery.*

15 May, 1879,	David N. Knox, M.B., Glasgow,	*Systematic Surgery.*
21 Dec., 1880,	A. G. Miller, M.D., F.R.C.S.E., Edinburgh,	*Surgery.*
,,	Joseph Bell, M.D., Edinburgh,	*Clinical Surgery.*
,,	William Craig, M.D., Edinburgh,	*Materia Medica and Therapeutics.*
,,	J. O. Affleck, M.D., Edinburgh,	*Practice of Medicine.*
,,	Dr. F. W. Moinet, Edinburgh.	*Materia Medica and Therapeutics.*
,,	John Barlow, M.D., Glasgow,	*Physiology.*
,,	Samson Gemmell, M.D., Glasgow,	*Practice of Medicine.*
24 May, 1881,	Byrom Bramwell, M.D., Edin.,	*Practice of Medicine.*
7 Dec., 1881,	Hector C. Cameron, M.D., Glasgow,	*Clinical Surgery.*
,,	Gavin P. Tennent, M.D., Glasgow,	*Clinical Medicine.*
26 Jan., 1882,	David C. M'Vail, M.B., Glas.,	*Practice of Medicine.*
,,	James M. Milne, Ph.D., Glasgow,	*Chemistry.*
,,	William L. Reid, M.D., Glasgow,	*Midwifery.*
13 Feb., 1883,	Wm. MacEwen, M.D., Glasgow,	*Surgery.*
,,	David Newman, M.D., Glasgow,	*Pathology.*
,,	John Glaister, M.D., Glasgow,	*Forensic Medicine.*
,,	Neil Carmichael, M.D., Glasgow,	*Materia Medica.*
,,	Eben. Duncan, M.D., Glasgow,	*Medical Jurisprudence.*
27 May, 1884,	Johnson Symington, M.D., Edinburgh,	*Anatomy.*
22 July, 1885,	James J. Dobbie, M.A., D.Sc., University Coll., Bangor,	*Chemistry.*
,,	Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor,	*Botany.*
29 Oct., 1885,	William Dittmar, Anderson's College, Glasgow,	*Chemistry.*
28 April, 1886,	A. Smithells, B.Sc., Yorkshire College, Leeds,	*Chemistry.*
4 Oct., 1887,	Claud M. Thompson, University College, Cardiff,	*Chemistry.*
,,	W. Newton Parker, University College, Cardiff,	*Zoology.*
31 Oct., 1888,	Alexander Robertson, M.D., Glas.,	*Clinical Medicine.*
20 Mar., 1889.	Alexander Napier, M.D., Glas.,	*Materia Medica.*
27 Feb., 1890,	James Robertson Watson, M.A., Glasgow,	*Chemistry and Practical Chemistry.*
,,	James Christie, M.D., Glasgow,	*Physiology.*
,,	John Lindsay Steven, M.D., Glas.,	*Pathology.*
,,	Alex. Robertson, M.D., Glasgow,	*Practice of Medicine.*
,,	Philip J. White, M.B., University College, Bangor,	*Zoology.*
26 Feb., 1891,	Thomas King, Glasgow,	*Botany.*
,,	A. B. Robertson, Glasgow,	*Chemistry.*
30 April, 1891,	E. E. Prince, Glasgow,	*Zoology.*

APPENDIX IV.

GLASGOW UNIVERSITY EXTENSION BOARD.

The University has organised a scheme for the extension of University teaching, by means of local lectures and classes, upon the lines which have proved so successful in the case of the Universities of Oxford and Cambridge. Its purpose is to give, as far as possible, the advantages of University education to those whose circumstances do not permit them to attend the University. It is especially intended to meet the wants of (1) ladies, (2) clerks and other persons engaged in business, and (3) artizans of all classes. The Scheme is under the management of the following Board:—Sir James King, Bart., LL.D., *Chairman*; *Robert Gourlay, Manager, Bank of Scotland, St. Vincent Place, Glasgow, *Hon. Treasurer*; * R. M. Wenley, M.A., D.Sc., 8 St. Alban's Terrace, Glasgow, W., *Hon. Sec.*; Professor M'Call Anderson, M.D.; Professor Barr, D.Sc.; *William Bathgate, M.A., H.M.I.S.; Walter G. Blackie, LL.D.; Professor Bower, D.Sc., F.R.S.; * Professor Bradley, M.A.; * J. Cleland Burns; Professor Buchanan, M.D., LL.D.; The Very Rev. Principal Caird, D.D.; *Professor E. Caird, LL.D.; James Campbell of Tullichewan; Professor Charteris, M.D.; William Clark; Stewart Clark of Kilnside; Professor Cleland, M.D., LL.D.; Mrs. Archibald Coats; Thomas Glen Coats; *Archibald Craig, LL.B.; George Crichton; Alexander Crum of Thornliebank; Sir John Neilson Cuthbertson; Peter Denny, LL.D.; The Rev. Professor Dickson, D.D.; The Rev. Principal Douglas, D.D.; *Henry Dyer, M.A., D.Sc., C.E.; Professor Ferguson, LL.D.; David Forsyth, M.A., D.Sc.; Charles Gairdner, LL.D.; Professor Gairdner, M.D., LL.D.; James Grahame; Professor Grant, LL.D.; *The Rev. David Hunter, B.D.; *John Hutchison, LL.D.; *Professor Jack, LL.D.; Professor Jenkins; William Jolly, H.M.I.S.; William Ker; J. H. Kerr; John Kerr, LL.D., H.M.I.S.; Professor Leishman, M.D.; *Mrs. Lindsay; Sir James D. Marwick, LL.D.; *Colonel Sir Donald Matheson, K.C.B.; T. A. Mathieson; Professor Moir; Donald Morrison, LL.D.; Thomas Muir, LL.D.; Professor Murray, B.A.; James Macdonald, LL.D.; * The Rev. A. R. M'Ewen, B.D.; * Professor M'Kendrick, M.D., F.R.S.; Professor Sir G. H. B. Macleod, M.D.; Professor Nichol, LL.D.; Miss Grace Paterson; R. W. Cochran Patrick of Woodside, LL.D.; * Professor Ramsay, LL.D.; The Rev. Professor Robertson, D.D.; Thomas Russell of Ascog; Professor Simpson, M.D.; * William Smart, M.A.; J. Parker Smith of Jordanhill, M.P.; Sheriff Spens, LL.D.; Alexander Stephen; * The Rev. Professor Stewart, D.D.; The Rev. Professor Story, D.D.; Professor Moody Stuart; Professor James Thomson, LL.D.; Professor Sir William Thomson, LL.D., D.C.L.; Professor Veitch, LL.D.; * The Rev. John Watt, D.D.; * Mrs. R. M. Wenley; * Professor Young, M.D.

Those marked * constitute the Executive.

A Prospectus giving an account of the movement and of the mode of working it, together with a list of lecturers and subjects, may be had (post free) on application to Dr. Wenley, the Secretary, to whom communications by local committees and all persons interested should be addressed.

APPENDIX V.

UNIVERSITY SOCIETIES.

GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council.

Objects.—The objects of the Union are to maintain Reading and Writing Rooms, to hold Debates, to promote social intercourse among the Members, and to form a centre to which the various University Societies may be affiliated.

Membership.—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Five Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

President—John Paterson, M.A.
Vice-President—Joseph Coats, M.D.
Hon. Secretary—Fred. A. Macquisten, B.L.
Hon. Treasurer—M. P. Fraser, LL.B.
Assistant Treasurer—Percy H. Murray.
Librarian—Joshua Ferguson, M.A.

Board of Directors.—The Office-bearers, and C. O. Hawthorne, M.B., C.M.; Robert G. Bell, M.B., C.M.; R. S. Horne; and D. H. Gillan, M.A.

Library Committee—Jas. J. MacLehose, M.A,; A. M. Mitchell, LL.B.; John Brownlee, M.A.; J. W. Cleland; J. H. Carslaw, M.A., M.B.; J. B. Paterson; and Joshua Ferguson, M.A., *Convener.*

THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all students attending the Divinity Hall of the University; but all matriculated students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

Honorary President—The Rev. Professor Story, D.D.
President—John White.
Vice-President—John E. Black, M.A.
Secretary—Stevenson M'Nab, M.A.
Treasurer—Robert J. Paul, M.A.

Committee.

D. H. Gillan, M.A.	Hugh Y. Arnott, M.A.
J. W. Macdonald, M.A.	John Dron.

(With two other members to be elected in November.)

MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations and Debates.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling.

Medical Students, if Members of the Union, may enrol as Members of the Society, free of charge.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

Office-Bearers for 1891-92.

Honorary President—Professor M'Call Anderson, M.D.
President—Donald Murray.
Vice-Presidents.
Senior—Edward Evans.
Junior—P. O. W. Browne.
Secretaries.
Corresponding—W. J. M'Kendrick, 45 Westbourne Gardens, Kelvinside.
Minute—J. F. R. Gairdner.
Treasurer—C. H. M'Ilraith, M.A.
Librarian—A. L. M'Leod, M.A.

Committee.

W. M. Holmes.	G. D. S. Heyliger.
R. C. Robertson, M.A.	A. A. Warden, M.A.
J. Lindsay, M.A.	J. Selkirk, M.A.

(And two students of the First year to be elected in November.)

Books given out at Weekly Meetings, or during Week by written application.

DIALECTIC SOCIETY.

Honorary President.
W. T. Gairdner, M.D., LL.D., Professor of Practice of Medicine.
President—John Paterson, M.A.

Vice-Presidents.
Senior—Fred. A. Macquisten. *Junior*—R. S. Horne.
Secretaries.
Senior—Joshua Ferguson, M.A., Enfield House, Crosshill.
Junior—J. G. Spens.
Treasurer—J. W. Cleland.
Macer—J. M. Manford.

General Board.

John Brownlee, M.A.
Horatio S. Carslaw.
D. H. Gillan, M.A.
W. P. Hanks.
D. S. Jerdan.
W. Newlands.
J. B. Paterson.
A. Taylor, M.A.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All Students of the University are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

Office-Bearers.
President—Rev. Professor James Robertson, D.D.
Vice-President—Mr. R. B. Pattie, B.D.
Corresponding Secretary—Rev. James Young, B.D.
Recording Secretary—Rev. A. Cameron Watson, B.D.
Treasurer—Rev. Robert Gardner, B.D.

GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing or any person officially connected with the University is eligible for Honorary Membership.

Office-Bearers.
Honorary Presidents.
Professor G. G. Ramsay, LL.D.
Professor G. G. A. Murray, B.A.
President—John Brown, M.A.
Vice-President—Daniel Rankin, B.A.
Secretary—James Dick.
Treasurer—James Ferguson.

Committee.

W. Newlands.
J. P. Wilson, M.A.
Gavin L. Pagan.
R. G. Nisbet.

GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

The Society was instituted for the promotion of Philosophical Discussion and Investigation, and meets ordinarily on Tuesday Evenings at Half-past Seven during the Winter Session. The Society is affiliated to the University Union. Ordinary Membership is open to all Students who have attended or who are attending Philosophical Classes in any University. The annual subscription is half-a-crown, but to members of the University Union who join the Society otherwise than by selecting it as one of the two societies open to them without subscription, the annual subscription is one shilling.

Office-Bearers for Session 1891-92.

Honorary Presidents.

Principal Caird,
Professor Veitch,
Professor Edward Caird,
Professor A. C. Bradley,
Professor Max Müller,
} *Ex Officiis.*
Professor William Wallace, University of Oxford.

Presidents.

Joshua Ferguson, M.A. | Robert Bulloch Douglas, M.A.

Secretary—J. B. Alexander.
Treasurer—John E. Black, M.A.

Members of Committee.

R. Bailie Douglas, M.A.	R. S. Horne.
John White.	J. H. Maclean, M.A.

(And two others to be elected in November.)

GLASGOW UNIVERSITY PHILOMATHIC SOCIETY.

The object of this Society is the promotion of the systematic study of English Literature by the reading of selected works during the Summer, and discussion of these during the Session. It meets every alternate Saturday during the Session at Six. All Members of the University are eligible for membership, which may be obtained through the Union, by payment of the Annual Subscription of One Shilling. The works to be discussed next Session are—Browning's Paracelsus, King Lear, The Tempest, Matthew Arnold's Poems, Ruskin's Crown of Wild Olive, and Bacon's Essays.

Office-Bearers.

Honorary-President—Professor Bradley, M.A.
President—N. Macnicol, M.A.
Vice-President—John M. Manford.
Secretary—A. M. Hamilton.
Treasurer—H. Hamilton.

Committee.

John E. Black, M.A. | R. Bulloch Douglas, M.A.
John A. Dron.

GLASGOW UNIVERSITY SCIENCE ASSOCIATION.

The principal aims of this Association are:—(1) To protect and further the interests of Science students, (2) to encourage interest in scientific subjects by means of discussions and lectures. All Science Students and Graduates in Science of Glasgow University are eligible for membership.

Office-Bearers for 1890-91.

Honorary President.

Sir William Thomson, LL.D., D.C.L., Pres. R.S.

President—G. G. Henderson, M.A., D.Sc.

Vice-Presidents.

R. M. Ferrier.
James Rankin.

Secretary—David R. Boyd.

Treasurer—J. C. Robertson, M.A.

Executive Committee.

John Brownlee, M.A.
J. Erskine Murray.
Robert Main.
L. J. Paton.
Archd. M'Lellan.
T. A. B. Carver, B.Sc., C.E.
W. Buchanan.
H. R. Brownlee.
Robert Kennedy
J. B. Henderson.

GLASGOW UNIVERSITY ORCHESTRAL SOCIETY.

This Society was formed in January, 1885, at a general meeting of Students, presided over by Wm. Galbraith Miller, Esq. The Society has for its object the promotion of the study and practice of Instrumental Music among Members of the University. The membership is open to present and former Students of the University. Others, however, may be admitted by special resolution of the Committee.

Patrons. (1888-89.)

The Very Rev. Principal Caird.

Professor Sir William Thomson.
,, Grant.
,, Nichol.
,, Gairdner.
,, Ramsay.
,, Veitch.
,, Edward Caird.
Professor Young.
,, Stewart.
,, Ferguson.
,, Jebb.
,, M'Kendrick.
,, Robertson.
,, Jack.

W. Galbraith Miller, Esq., Advocate.
J. T. Bottomley, Esq., F.R.S.

Office-Bearers. (1888-89.)

Honorary President.

Professor Young.

President—Professor Ferguson.

Secretary and Treasurer—George Guthrie, M.A., LL.B.,
226 West George Street.

Librarian—Robert G. Reid.

General Committee.

W. G. Miller, Esq.
Charles E. Beckett, M.A., LL.B.
V. Zinkeisen, jr.
Robert G. Reid.

Conductor—Mr. Montague Smith.

UNITED MUSICAL SOCIETY OF THE UNIVERSITY OF GLASGOW AND QUEEN MARGARET COLLEGE.

1. This Society, which is the result of the union of the Choral Societies of the University of Glasgow and of Queen Margaret College, has as its object the cultivation by its members of music generally, but more especially of Choral singing.

2. The Society consists of :—

I. *Choral Members*, who may be—
  (i) Ladies of the Queen Margaret College of present or past Sessions.
  (ii) Students of the University, past and present.
  (iii) The Professors and members of Professors' families; or Members of the Council of Queen Margaret College, and members of their families.
  (iv) Members who, though not connected directly with either of the above Institutions, wish to join in the Choral singing.

II. *Honorary Members*, who though not wishing to join the Chorus, desire to support the Society : they will be admitted to the Rehearsals, and will have votes at public business meetings.

3. The Chorus will be limited to 120 Members, of whom not more than 60 are to belong to either of the Classes (i) or (ii).

4. The Conductor is Mr. Montague Smith.

5 The Executive Committee consists of—
  (i) The Conductor.
  (ii) Two Members of the Council of Queen Margaret College.
  (iii) Two Members of Senate of the University.
  (iv) Two Delegates from the students of Queen Margaret College.
  (v) Two Delegates from the students in the University—
    with power to add to their numbers.

6. One of the Members of Senate shall be President.

7. Those not on the Roll of either of the above Choral Societies on March 1st, 1890, must be vouched for, before admission to the society, by some member of the Executive Committee, as musically suitable members of the Chorus.

8. New Members from Queen Margaret College, after being proposed and seconded by members, shall be balloted for by the members from Queen Margaret College : one black ball in two shall exclude.

9. New Members from the University, after being proposed and seconded by members, shall be balloted for by the members from the University : one black ball in two shall exclude.

10. Candidates for Membership under head (iv) shall be balloted for by the Executive Committee, after being proposed and seconded by members : one black ball in two shall exclude. In filling up vacancies, preference will be given, if necessary, to student candidates. Membership under head (iv) shall be valid only for one Season, but shall be renewable.

11. The Subscription for members under heads (i), (ii), and (iii), is 5s. for the Session. The subscription for outside Members (iv) and for Honorary Members is 10s. 6d. Honorary Members may receive on application, two tickets for the Concerts of the Society.

The United Society met for the first time, by permission of the Senate, in the Divinity Hall, on Tuesday, March 18th, 1890, when the above constitution was confirmed. The Choral rehearsals of the Society will be held weekly, within the University, beginning at the opening of the Winter Session.

Office-Bearers for Session 1890-91.

President—Professor Bower.

Secretaries— Miss Lang.
Mr. J. S. Buchanan.

Treasurers— Miss Galloway.
W. F. Somerville, M.A., M.D.

Conductor—Mr. Montague Smith.

Librarian—Mr. J. J. Robb.

Other Members of Executive Committee—
Miss L. P. Macara.
Mrs. L. Young.
Professor Young.

GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

Office-Bearers for 1891-92.

Honorary President—Professor E. Caird, LL.D.

President—J. W. Macdonald, M.A.

Vice-President—John White.

Superintendents of Home Missions— John E. Black, M.A.
R. J. Paul, M.A.

Secretary—John Livingston, Baldernock, Torrance of Campsie.

Assistant Secretary—David Bayne, M.A.

Librarian—William Metcalfe.

Treasurers— William Howie, M.A.
William S. Brownlee, M.A.

Members of Committee.

From Theology—
Robert L. Boyd, M.A.
Robert Barr.
Andrew Campbell.
J. A. Dron.
J. B. Mackenzie, M.A.
W. B. Macnab, M.A.

From Arts—
Gavin L. Pagan.
T. Wardrop.
J. Hamilton.

From Law—
T. J. Brown.

From Medicine—
M. Macnicol, M.A.
John C. Young.

GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

In connection with the Association there are held—Weekly Prayer Meetings, occasional Sabbath Evening Services, Bible Readings, etc.

Office-Bearers.
Hon. President—Rev. Professor Dickson, D.D.
Hon. Vice-President—J. H. Maclean, M.A.
President—John C. Young.
Vice-President—John Macara, M.A.
Secretary—W. D. Miller, 9 Huntly Terrace, North Kelvinside.
Assist.-Secretary—Samuel Scott.
Treasurer—Archibald Œ. Robertson.
Assist.-Treasurer—Alexander B. Grant.

Committee.
Chas. B. Beard.
James Hamilton.
T. R. Jones.
J. Duncan Love.
Gavin L. Pagan.
Thomas Wardrop.

GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

(Instituted 1844.)

The object of the Society is to bring together, by means of social meetings, etc., the abstaining students in the University, and to carry on Temperance Mission Work.

Office-Bearers for 1891-92.
Honorary President—Professor G. G. A. Murray, B.A.
Honorary Vice-Presidents.
Rev. J. Marshall Lang, D.D.
J. Campbell White, Esq.
Geo. A. Gibson, M.A.
Rev. William Swan, B.D.
President—John E. Black, M.A.
Vice-President—N. M. Wright.
Secretary—James Hamilton, 10 Possil Road.
Treasurer—Hugh A. Hamilton.

Committee.
R. M. Buchanan.
Andrew Graham.
D. N. Lennox.
J. W. Macdonald, M.A.
M. Macnicol, M.A.
J. M'Neil.
Malcolm Sinclair.
Thomas Wardrop.

GLASGOW UNIVERSITY ATHLETIC CLUB.

Honorary President—Professor Bower, D.Sc., F.R.S.
President—C. F. P. Fraser, M.A.
Vice-President—H. S. Reid.
Hon. Secretary—Robert Hutcheson, LL.B., 115 Wellington St., Glasgow.
Hon. Treasurer—Warren Crosbie, B.L., 153 St. Vincent St., Glasgow.

General Committee (including Office-Bearers).
H. C. Hamilton, LL.B.
M. P. Fraser, LL.B.
N. A. Macleod.
J. Stewart Carrick.
R. J. Marshall.
J. Russell Aitken.
A. D. Crawford,
George Lamb, M.B., C.M.
A. D. Cuthbert.

Sub-Committees.

Rugby Football.
R. M. Donaldson.
A. D. Cuthbert.
C. F. P. Fraser, M.A.
W. A. Macdonald.
George Lamb, 21 Holyrood Crescent, *Hon. Sec.*

Golf.
J. Stewart Carrick.
W. N. Sime.
M. P. Fraser, LL.B.
Warren Crosbie, B.L.
Robert Hutcheson, LL.B., Secretary.

Tennis.
R. J. Marshall.
C. J. Higginbotham.
F. C. Barker.
W. Ralston.
H. C. Hamilton, LL.B., 1 North Park Terrace, *Hon. Sec.*

Track.
C. F. P. Fraser, M.A.
N. A. Macleod.
W. Graham, M.A.
Robert Hutcheson, LL.B.
A. D. Crawford, 198 W. George Street, *Hon. Sec.*

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University. The affairs of the Club are managed by a General Committee and Sub-Committees, one for each form of Athletic exercise. The General Committee are entrusted with the management of all matters concerning the Field, Pavilion, Annual Games, &c. The Sub-Committees are entrusted with the arrangements for each special form of exercise, subject always to the approval of the General Committee. The Annual Subscription to the Club is 2s. 6d., with a further Subscription for each form of exercise. None but Members of the Club are entitled to play any game under charge of any Sub-Committee.

The Annual General Meeting is held on the first Friday in November. Special Meetings are held when required.

GLASGOW UNIVERSITY UNITED PRESBYTERIAN STUDENTS' SOCIETY.

Honorary President—Rev. James Kidd, B.D.
President—R. M. Buchanan.
Vice-President—N. M. Wright.
Secretary—Andrew M'Lachlan, Craigton, Rothesay.
Treasurer—J. C. Scott.

Committee.

Samuel Scott. | Laurence Gibson. | Robert Wiseman.

(And another to be elected in November.)

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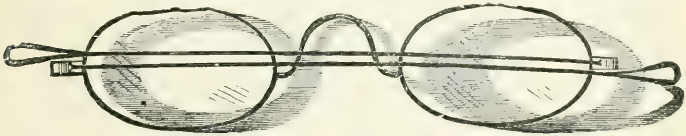

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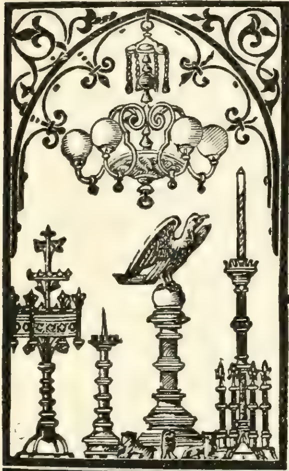

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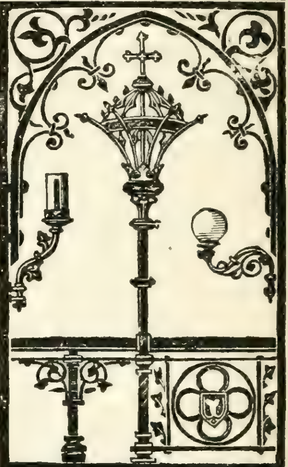

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